

SUBJECT INDEX TO VOLUME 101

Entries from JOURNAL departments are identified as follows: Case Reports—(CR); Classic Papers Revisited—(CPR); Clinical Investigations—(CI); Clinical Concepts and Commentary—(CCC); Correspondence—(CO); Economics—(EC); Editorial Views—(EV); Educational Material—(EM); Laboratory Investigations—(LI); Laboratory Reports—(LR); Pain and Regional Anesthesia—(PRA); Practical Guidelines—(PG); Report of Scientific Meeting—(RSM); Review Article—(RA); Special Article—(SA); Special Section—(SS); Web Site—(WS).

A

Acatalasemia

methemoglobinemia from hydrogen peroxide in patient with (CR) [Hamada et al.], 247

Acetylcholine

anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of airway smooth muscle (LI) [Sakihara et al.], 120

inhibitory effect of fentanyl on acetylcholine-induced relaxation in rat aorta (LI) [Sohn et al.], 89

Acidosis

changes in tissue pH and temperature after incision indicate acidosis may contribute to postoperative pain (PRA) [Woo et al.], 468

lactic acidosis during propofol-remifentanyl anesthesia in adult (CR) [Salengros et al.], 241

maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332

metabolic acidosis associated with propofol in absence of other causative factors (CR) [Burow et al.], 239

propofol anesthesia associated with metabolic acidosis (EV) [Funston et al.], 6

Activator protein-1

sevoflurane inhibits phorbol-myristate-acetate-induced activator protein-1 activation in human T lymphocytes *in vitro*: potential role of the p38-stress kinase pathway (LI) [Loop et al.], 710

Acute hypoxic ventilatory response

effect of pain and audiovisual stimulation on depression of acute hypoxic ventilatory response by low-dose halothane in humans (PRA) [Pandit et al.], 1409

Acute respiratory distress syndrome

after an exothermic Baralyme®-sevoflurane reaction (CR) [Fatheree et al.], 531

mechanical ventilation in patients with (CCC) [Rouby et al.], 228

recruitment maneuvers after a positive end-expiratory pressure trial do not induce sustained effects in early adult respiratory distress syndrome (CI) [Oczenski et al.], 620

Adenosine receptors

activation of A₁ adenosine receptors attenuates lung injury after *in vivo* reperfusion (LI) [Rivo et al.], 1153

Adenosine triphosphate

hemorrhagic shock in swine: nitric oxide and potassium sensitive adenosine triphosphate channel activation (LI) [Musser et al.], 399

molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390

protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381

Adrenergic agents and receptors

α_{2A} adrenoceptors contribute to feedback inhibition of capsaicin-induced hyperalgesia (PRA) [Mansikka et al.], 185

clonidine prolongation of lidocaine analgesia after sciatic nerve block in rats is mediated *via* the hyperpolarization-activated cation current, not by α -adrenoceptors (PRA) [Kroin et al.], 488

combinations of bupivacaine, fentanyl, and clonidine for lumbar epidural postoperative analgesia (PRA) [Svecic et al.], 1381

do alpha agonists increase venous return? (CO) [Butterworth], 1038

effect of clonidine on cardiovascular morbidity and mortality after noncardiac surgery (CI) [Wallace et al.], 284

interaction of halogenated anesthetics with α - and β -adrenoceptor stimulations in diabetic rat myocardium (LI) [Amour et al.], 1145

is there any reason to withhold α_2 agonists from patients with coronary disease during surgery? (CO) [Quintin et al.], 1244

a large trial is vital to prove perioperative β -blockade effectiveness and safety before widespread use (CO) [Leslie et al.], 803

perioperative β -adrenergic receptor blockade (CCC) [London et al.], (2004;100:170), 565 (author correction)

solid (concrete) evidence needs both cement and sand (CO) [Basler et al.], 802

why should primary care physicians even wait for surgery in high risk patients? (CO) [Kempen], 801

Adverse events. See also Complications; Drug toxicity

bleeding, dysphagia, dysphonia, dysarthria, severe sore throat, and possible recurrent laryngeal, hypoglossal, and lingual nerve injury associated with routine Laryngeal Mask Airway management (CO) [Reier], 1241

emergency treatment of tracheobronchial stent migration (CR) [Amour et al.], 1230

inductive warming of intravenous fluids: overheating of toroid heating element during rapid infusion (CR) [Husser et al.], 1019

injuries associated with regional anesthesia in 1980s and 1990s (PRA) [Lee et al.], 143

malignant hyperthermia in North America: genetic screening of type I ryanodine receptor gene (CI) [Sie et al.], 824

one-millimeter thickness makes a great difference (CO) [Voronov et al.], 809

perioperative compartment syndrome of hand (CR) [Kies et al.], 1232

temporary pacemaker who wouldn't quit (CO) [Parekh et al.], 810

transdiaphragmatic hernia and hypoxemia during colonoscopy (CO) [Dobres et al.], 811

transient profound neurologic deficit associated with thoracic epidural analgesia in an elderly patient (CR) [Jacob et al.], 1470

Aging and age factors

influence of age on the pharmacokinetics and pharmacodynamics of oral transmucosal fentanyl citrate (LI) [Kharasch et al.], 738

Air embolism

during aircraft flight in passenger with a pulmonary cyst: favorable outcome with hyperbaric therapy (CR) [Closos et al.], 539

retrograde air embolization during routine radial artery catheter flushing in adult cardiac surgical patients (CI) [Murphy et al.], 614

Airway management. See also Laryngeal Mask Airway

amateur dentistry and the anesthesiologist (CO) [Leyland], 1051

anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of airway smooth muscle (LI) [Sakihara et al.], 120

bleeding, dysphagia, dysphonia, dysarthria, severe sore throat, and possible recurrent laryngeal, hypoglossal, and lingual nerve injury associated with routine Laryngeal Mask Airway management (CO) [Reier], 1241

comparison of sex- and weight-based ProSeal[®] laryngeal mask size selection criteria (CI) [Kihara et al.], 340

Eschmann tracheal tube introducer is not gum, elastic, or a bougie (CO) [El-Orbany et al.], 1240

Finucane, Santora, *Principles of Airway Management, Third Edition* (EM) [Ovassapian], 1255

foreign body in airway (CO) [Rengasamy et al.], 1486

- GlideScope®-assisted fiberoptic intubation: new airway teaching method (CO) [Doyle], 1252
- grading scale for mask ventilation (CO) [Han et al.], 267
- hemofiltration but not steroids results in earlier tracheal extubation following cardiopulmonary bypass (CI) [Oliver et al.], 327
- is it the validation or invalidation of the airway management algorithm? (CO) [Rajan], 1484
- modified rapid sequence induction using the *ProSeal*® Laryngeal Mask Airway and an Eschmann tracheal tube introducer or gum elastic bougie (CO) [Brimacombe et al.], 1251
- practice guidelines for management of the difficult airway (ASA Task Force on Management of the Difficult Airway) (2003;98:1269), 565 (erratum)
- proposed classification system for extraglottic airway devices (CO) [Brimacombe], 559
- randomized controlled trial comparing the *ProSeal*® Laryngeal Mask Airway with the laryngeal tube suction in mechanically ventilated patients (CI) [Gaitini et al.], 316
- severe subluxation in the sniffing position in a rheumatoid patient with anterior atlantoaxial subluxation (CR) [Takenaka et al.], 1235
- unanticipated difficult airway: what about emergency cases? (CO) [Heidegger et al.], 1485
- unassisted gum elastic bougie-guided insertion of the *ProSeal*® Laryngeal Mask Airway (CO) [Matic et al.], 1240
- use of a Fogarty catheter sheath as an endotracheal tube changer (CO) [Kumar et al.], 1486
- Alfentanil**
- comparative analgesic and mental effects of increasing plasma concentrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
- Allodynia**
- delta-opioid agonist SNC80 can attenuate the development of dynorphin A-induced tactile allodynia in rats (CR) [Kawaraguchi et al.], 546
- Alzheimer disease**
- inhaled anesthetic enhancement of amyloid- β oligomerization and cytotoxicity (LI) [Eckenhoff et al.], 703
- Ambulatory surgery**
- comparison of infraclavicular nerve block *versus* general anesthesia for hand and wrist day-case surgeries (PRA) [Hadzic et al.], 127
- early but no long-term benefit of regional compared with general anesthesia for ambulatory hand surgery (PRA) [McCartney et al.], 461 (erratum, 1057)
- effect of Bispectral Index monitoring on ambulatory anesthesia (CI) [Liu], 311
- effect of regional anesthesia on hospital stay for outpatients and definition of postanesthesia care unit bypass eligibility (EV) [Williams], 3
- American Society of Anesthesiologists (ASA)**
- Clifford J. Woolf, M.B., B.Ch., Ph.D.: recipient of 2004 Excellence in Research Award, 820
- journal-related activities at 2004 American Society of Anesthesiologists annual meeting [Kharasch et al.], 571
- practice guidelines for management of the difficult airway (ASA Task Force on Management of the Difficult Airway) (2003;98:1269), 565 (erratum)
- Amyloid- β**
- inhaled anesthetic enhancement of amyloid- β oligomerization and cytotoxicity (LI) [Eckenhoff et al.], 703
- Anaphylactic shock**
- is vasopressin the drug of choice? (CR) [Schummer et al.], 1025
- Anatomy**
- cervical epidural steroid injection: impact of cervical epidural anatomy (CO) [Mchaourab], 1238
- clinical implications of topographic anatomy on ganglion impar (LR) [Oh et al.], 249
- learning aid for geometric relations of cardiac valves (CO) [Handa-Tsutsui et al.], 1050
- Anesthesia machines and circuits**
- explosion within an anesthesia machine: Baralyme®, high fresh gas flows and sevoflurane concentration (CR) [Castro et al.], 537
- in vivo* evaluation of mycobacterial filtration efficacy of three breathing filters (LI) [Vezina et al.], 104
- new closed-loop control system for isoflurane using Bispectral Index outperforms manual control (CI) [Locher et al.], 591
- oxygen flush valve booby trap (CO) [Mann et al.], 558
- spontaneous ignition, explosion, and fire with sevoflurane and barium hydroxide lime (CR) [Wu et al.], 534
- Anesthesia providers**
- influence of type of anesthesia provider on costs of labor analgesia to Texas Medicaid program (EC) [Abouleish et al.], 991
- what makes a "good" anesthesiologist? (EV) [Gaba], 1061
- Anesthesiology**
- journal-related activities at 2004 American Society of Anesthesiologists annual meeting [Kharasch et al.], 571
- two manuscripts, too similar (CO) [Lerman et al.], 801
- Animal models. See Models and modeling**
- Antichemical protective gear**
- hazards and difficulties of wearing chemical warfare gear (CO) [Bloomfield], 1478
- Antiemetics**
- is low-dose haloperidol a useful antiemetic? (RA) [Büttner et al.], 1454
- Antimicrobial therapy**
- anesthesiologists and perioperative antibiotic prophylaxis (CO) [Tewari et al.], 259
- linezolid-bupropion interaction as possible etiology of severe intermittent intraoperative hypertension? (CO) [Marcucci et al.], 1487
- why anesthesiologists should administer preoperative antibiotics (CO) [Roth], 258
- Antiplatelet therapy**
- perioperative hemorrhage and combined clopidogrel and aspirin therapy (CR) [Moore et al.], 792
- spinal epidural hematoma after spinal anesthesia in patient treated with clopidogrel and enoxaparin (CR) [Litz et al.], 1467
- Antipsychotics**
- intravenous ziprasidone for treatment of delirium in the intensive care unit (CR) [Young et al.], 794
- Aorta**
- effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K⁺ channels in rat aorta (LR) [Dojo et al.], 251
- inhibitory effect of fentanyl on acetylcholine-induced relaxation in rat aorta (LI) [Sohn et al.], 89
- inhibitory effects of isoflurane on protein tyrosine phosphorylation-modulated contraction of rat aortic smooth muscle (LI) [Yu et al.], 1325
- rapid ischemic preconditioning for spinal cord protection after transient aortic occlusion (CO) [Toumopoulos et al.], 261
- Apolipoprotein E genotype**
- and cognitive dysfunction after noncardiac surgery (CI) [Abildstrom et al.], 855
- Apoptosis**
- anesthesia-induced developmental neurapoptosis (EV) [Olney et al.], 273
- influence of propofol on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhard et al.], 912
- propofol attenuates peroxynitrite-mediated DNA damage and apoptosis in cultured astrocytes (LI) [Acquaviva et al.], 1363
- Arrhythmias. See Heart rhythm and dysrhythmias**
- Aspirin**
- perioperative hemorrhage and combined clopidogrel and aspirin therapy (CR) [Moore et al.], 792
- Auditory evoked response**
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 29
- signal verification of middle latency auditory evoked potentials by automated detection of the brainstem response (CI) [Schneider et al.], 321
- spectral entropy as EEG measure of anesthetic drug effect (CI) [Vanluchene et al.], 34

B

Biological markers

- incidence and significance of cardiac troponin I release in severe trauma patients (CI) [Edouard et al.], 1262
- troponin: important in severe trauma and a first step in the biological marker revolution (EV) [Riou], 1259

Bispectral Index®

- application of Bispectral Index® and Narcotrend® index to measurement of EEG effects of isoflurane with and without burst suppression (CI) [Kreuer et al.], 847
- can Bispectral Index monitoring predict recovery of consciousness in patients with severe brain injury? (CI) [Fàbregas et al.], 43
- coadministration of propofol and midazolam decreases Bispectral Index value as a result of synergic muscle relaxant action on the motor system (CO) [Fodale et al.], 799
- comparative evaluation of Datex-Ohmeda S/5 entropy module and Bispectral Index® monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283
- detection of gas embolism by Bispectral Index and entropy monitoring in two cases (CO) [Chazot et al.], 1053
- effect of Bispectral Index monitoring on ambulatory anesthesia (CI) [Liu], 311
- impact of Bispectral Index monitoring on stress response and propofol consumption in patients undergoing coronary artery bypass surgery (CI) [Bauer et al.], 1096
- new closed-loop control system for isoflurane using Bispectral Index outperforms manual control (CI) [Locher et al.], 591
- normal Bispectral Index values in healthy volunteers (CO) [Soto et al.], 799
- spectral entropy and Bispectral Index as measures of EEG effects of sevoflurane (CI) [Ellerkamann et al.], 1275
- spectral entropy as EEG measure of anesthetic drug effect (CI) [Vanluchene et al.], 34

Bleeding

- bleeding, dysphagia, dysphonia, dysarthria, severe sore throat, and possible recurrent laryngeal, hypoglossal, and lingual nerve injury associated with routine Laryngeal Mask Airway management (CO) [Reier], 1241
- high incidence of myocardial ischemia during postpartum hemorrhage of poor management of hemorrhagic shock? (CO) [Frölich et al.], 1037
- more information on patients with factor XI deficiency (CO) [Roberts et al.], 1253
- perioperative hemorrhage and combined clopidogrel and aspirin therapy (CR) [Moore et al.], 792
- postpartum hemorrhage is not the only setting for maternal myocardial ischemia (CO) [Palmer], 1036
- severe thrombocytopenia, type 2B von Willebrand disease and pregnancy (CR) [Hepner et al.], 1465
- spinal epidural hematoma after spinal anesthesia in patient treated with clopidogrel and enoxaparin (CR) [Litz et al.], 1467

Blood coagulation

- monitoring direct thrombin inhibitors: time for standardization (CO) [Welsby et al.], 1048
- more information on patients with factor XI deficiency (CO) [Roberts et al.], 1253

Blood flow

- effects of short-term fenoldopam infusion on gastric mucosal blood flow in septic shock (CI) [Morelli et al.], 576
- epinephrine prevents muscle blood flow increases after perineural injection of tetrodotoxin (PRA) [Masuda et al.], 1428

Blood patch

- efficacy of prophylactic epidural blood patch in preventing post dural puncture headache in parturients after inadvertent dural puncture (PRA) [Scavone et al.], 1422

Blood pressure

- autonomic nervous system response to epidural analgesia in laboring patients by wavelet transform of heart rate and blood pressure variability (CI) [Deschamps et al.], 21
- linezolid-bupropion interaction as possible etiology of severe intermittent intraoperative hypertension? (CO) [Marcucci et al.], 1487

local anesthetic cardiac toxicity can present as late-onset hypotension, bradycardia, and asystole (CO) [Weinberg et al.], 553

Body weight

- accuracy of pharmacokinetic models for predicting plasma fentanyl concentrations in lean and obese surgical patients (CI) [Shibutani et al.], 603

Brachial plexus block

- comparison of infraclavicular nerve block *versus* general anesthesia for hand and wrist day-case surgeries (PRA) [Hadzic et al.], 127

Brain function and disease

- anesthesia-induced developmental neuropoptosis (EV) [Olney et al.], 273
- anesthetic agents and the immature brain: are these toxic or therapeutic? (SA) [Anand et al.], 527
- anesthetic neurotoxicity: the collision between laboratory neuroscience and clinical medicine (EV) [Todd], 272
- can Bispectral Index monitoring predict recovery of consciousness in patients with severe brain injury? (CI) [Fàbregas et al.], 43
- combination of isoflurane with caspase inhibition reduces cerebral injury in rats subjected to focal cerebral ischemia (LI) [Inoue et al.], 75
- do indomethacin and propofol cause cerebral ischemic damage? (CI) [Rasmussen et al.], 872
- effects of anesthetic agents on focal adhesion kinase (pp125FAK) tyrosine phosphorylation in rat hippocampal slices (LI) [Dahmani et al.], 344
- effects on synaptic inhibition in hippocampus do not underlie amnestic and convulsive properties of 1,2-dichlorohexafluorocyclobutane (LI) [Perouansky et al.], 66
- functional brain imaging: some parameters for success (EV) [Alkire], 817
- functional MRI studies of pain (PRA) [Ibison et al.], 960
- influence of propofol on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhard et al.], 912
- isoflurane preconditioning induces neuroprotection that is inducible nitric oxide synthase-dependent in neonatal rats (LI) [Zhao et al.], 695
- Maier, Steinberg, *Hypothermia and Cerebral Ischemia: Mechanisms and Clinical Applications* (EM) [Petrozza], 1055
- propofol attenuates peroxynitrite-mediated DNA damage and apoptosis in cultured astrocytes (LI) [Acquaviva et al.], 1363
- selective postsynaptic inhibition of tonic-firing neurons in substantia gelatinosa by μ -opioid agonist (PRA) [Santos et al.], 1177

Bupivacaine

- combinations of bupivacaine, fentanyl, and clonidine for lumbar epidural postoperative analgesia (PRA) [Sveticic et al.], 1381
- comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888
- effect on isolated rabbit heart (LI) [Simon et al.], 937
- effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K^+ channels in rat aorta (LR) [Dojo et al.], 251
- molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390
- novel liposomal bupivacaine formulation to produce ultralong-acting analgesia (PRA) [Grant et al.], 133
- retigabine stimulates human KCNQ2/Q3 channels in the presence of bupivacaine (LI) [Punke et al.], 430
- spinal alcohol neurolysis for intractable thoracic postherpetic neuralgia after test bupivacaine spinal analgesia (CR) [Lauretti et al.], 244

Bupropion

- linezolid-bupropion interaction as possible etiology of severe intermittent intraoperative hypertension? (CO) [Marcucci et al.], 1487

C

Calcium and calcium channels

- comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888
- effects of isoflurane and sevoflurane on intracellular calcium and contractility in pressure-overload hypertrophy (LI) [Hannon et al.], 675
- effects of volatile anesthetics on store-operated Ca^{2+} influx in airway smooth muscle (LI) [Pabelick et al.], 373
- excitation-contraction coupling in heart and negative inotropic action of volatile anesthetics (RA) [Hanley et al.], 999
- inhibition of sarcoplasmic Ca^{2+} adenosine triphosphatase in porcine skeletal muscle samples with cyclopiazonic acid enables *in vitro* malignant hyperthermia discrimination (LR) [Gerbershagen et al.], 1475
- isoflurane reduces carbachol-evoked Ca^{2+} influx in neuronal cells (LI) [Corrales et al.], 895
- Mg^{2+} dependence of halothane-induced Ca^{2+} release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
- temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409

Capsaicin

- α_{2A} adrenoceptors contribute to feedback inhibition of capsaicin-induced hyperalgesia (PRA) [Mansikka et al.], 185

Carbon dioxide

- maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332
- topical humidified carbon dioxide to keep the open surgical wound warm (LI) [Persson et al.], 945

Cardiac arrest

- dexmedetomidine and asystole (CO) [Videira et al.], 1479
- hesitant to follow the conclusion drawn (CO) [Friederich et al.], 552
- local anesthetic cardiac toxicity can present as late-onset hypotension, bradycardia, and asystole (CO) [Weinberg et al.], 553
- a preventable yet a possible risk of dexmedetomidine: fact or fiction? (CO) [Muntazar et al.], 1478
- quality of anesthesia practice (CO) [Fahey], 554
- ropivacaine-induced asystole (CO) [de Jong], 552

Cardiac troponin

- important in severe trauma and a first step in the biological marker revolution (EV) [Riou], 1259
- incidence and significance of release in severe trauma patients (CI) [Edouard et al.], 1262

Cardioprotection

- cardioprotective properties of sevoflurane in patients undergoing coronary surgery with cardiopulmonary bypass are related to the modalities of its administration (CI) [De Hert et al.], 299
- inducible NOS mediates delayed cardioprotection induced by morphine *in vitro* (LI) [Jiang et al.], 82
- intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160
- protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381
- remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918

Cardiopulmonary bypass

- cardioprotective properties of sevoflurane in patients undergoing coronary surgery with cardiopulmonary bypass are related to the modalities of its administration (CI) [De Hert et al.], 299
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- effects of perioperative central neuraxial analgesia on outcome after coronary artery bypass surgery (PRA) [Liu et al.], 153
- effects on sufentanil pharmacokinetics in patients undergoing coronary artery bypass surgery (CI) [Hudson et al.], 862

- hemofiltration but not steroids results in earlier tracheal extubation following cardiopulmonary bypass (CI) [Oliver et al.], 327
- why the Food and Drug Administration changed the warning label for hetastarch (CO) [Haynes et al.], 560

Cardiovascular surgery

- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- comparison of cisatracurium and vecuronium by infusion in neonates and small infants after congenital heart surgery (CI) [Reich et al.], 1122
- effects of cardiopulmonary bypass on sufentanil pharmacokinetics in patients undergoing coronary artery bypass surgery (CI) [Hudson et al.], 862
- effects of perioperative central neuraxial analgesia on outcome after coronary artery bypass surgery (PRA) [Liu et al.], 153
- impact of Bispectral Index monitoring on stress response and propofol consumption in patients undergoing coronary artery bypass surgery (CI) [Bauer et al.], 1096
- perioperative β -adrenergic receptor blockade (CCC) [London et al.], 2004;100:170, 565 (author correction)
- platelet gene polymorphisms and cardiac risk assessment in vascular surgical patients (CI) [Faraday et al.], 1291
- retrograde air embolization during routine radial artery catheter flushing in adult cardiac surgical patients (CI) [Murphy et al.], 614
- temporary pacemaker who wouldn't quit (CO) [Parekh et al.], 810

Caspase inhibitors

- combination of isoflurane with caspase inhibition reduces cerebral injury in rats subjected to focal cerebral ischemia (LI) [Inoue et al.], 75

Catheters

- alternative to transtracheal injection for fiberoptic intubation in awake patients: novel noninvasive technique using a standard multiorifice epidural catheter through the bronchoscope suction port (CO) [Long et al.], 1253
- novel maneuver used to rule out intraarterial placement of the introducer sheath in a patient with an ipsilateral mature forearm hemodialysis fistula (CO) [Angarano et al.], 1052
- quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- retrograde air embolization during routine radial artery catheter flushing in adult cardiac surgical patients (CI) [Murphy et al.], 614

Cell and tissue culture

- anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of airway smooth muscle (LI) [Sakihara et al.], 120
- influence of GABA $_A$ receptor γ_2 splice variants on receptor kinetics and isoflurane modulation (LI) [Benkowitz et al.], 924
- interaction of ropivacaine with cloned cardiac Kv4.3/KChIP2.2 complexes (LI) [Friederich et al.], 1347
- isoflurane reduces carbachol-evoked Ca^{2+} influx in neuronal cells (LI) [Corrales et al.], 895
- mitochondrial injury and caspase activation by lidocaine (PRA) [Johnson et al.], 1184
- propofol attenuates peroxynitrite-mediated DNA damage and apoptosis in cultured astrocytes (LI) [Acquaviva et al.], 1363

Cerebrospinal fluid

- "oily" streak formation on aspiration of cerebrospinal fluid into local anesthetic solution: significance in combined spinal-epidural technique (CO) [Arya et al.], 1049

Cervical spine

- cervical epidural steroid injection: impact of cervical epidural anatomy (CO) [Mchaourab], 1238
- no granuloma and no intracranial hypotension (CO) [Aldrete], 1238
- reactivation of phantom limb pain immediately after cervical spinal decompression (CR) [Iida et al.], 790

Cesarean delivery. See Obstetric patients**Chloroprocaine**

- cardiac toxicity from 3% 2-chloroprocaine (CO) [Shroff et al.], 1036
- chloroprocaine or sulfite toxicity? (CO) [Baker], 1247

Cholinesterase inhibitors

- neuromuscular blocking drugs and perioperative memory enhancement (CO) [Fodale et al.], 1483
- Cisatracurium**
comparison of cisatracurium and vecuronium by infusion in neonates and small infants after congenital heart surgery (CI) [Reich et al.], 1122
- Clinical trials**
chronic oral gabapentin reduces elements of central sensitization in human experimental hyperalgesia (PRA) [Gottrup et al.], 1400
comparative analgesic and mental effects of increasing plasma concentrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
effect of Bispectral Index monitoring on ambulatory anesthesia (CI) [Liu], 311
effect of clonidine on cardiovascular morbidity and mortality after noncardiac surgery (CI) [Wallace et al.], 284
effects of perioperative central neuraxial analgesia on outcome after coronary artery bypass surgery (PRA) [Liu et al.], 153
efficiency of sciatic nerve block *via* posterior Labat approach using double-injection technique (PRA) [Taboada et al.], 138
is low-dose haloperidol a useful antiemetic? (RA) [Büttner et al.], 1454
a large trial is vital to prove perioperative β -blockade effectiveness and safety before widespread use (CO) [Leslie et al.], 803
popliteal sciatic perineural local anesthetic infusion (PRA) [Ilfeld et al.], 970
quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
randomized controlled trial comparing the *ProSeal*® Laryngeal Mask Airway with the laryngeal tube suction in mechanically ventilated patients (CI) [Gaitini et al.], 316
- Clonidine**
clonidine prolongation of lidocaine analgesia after sciatic nerve block in rats is mediated *via* the hyperpolarization-activated cation current, not by α -adrenoreceptors (PRA) [Kroin et al.], 488
combinations of bupivacaine, fentanyl, and clonidine for lumbar epidural postoperative analgesia (PRA) [Sveticic et al.], 1381
effect on cardiovascular morbidity and mortality after noncardiac surgery (CI) [Wallace et al.], 284
- Clopidogrel**
perioperative hemorrhage and combined clopidogrel and aspirin therapy (CR) [Moore et al.], 792
spinal epidural hematoma after spinal anesthesia in patient treated with clopidogrel and enoxaparin (CR) [Litz et al.], 1467
- Cognition**
apolipoprotein E genotype and cognitive dysfunction after noncardiac surgery (CI) [Abildstrom et al.], 855
cholinesterase inhibitors, neuromuscular blocking drugs and perioperative memory enhancement (CO) [Fodale et al.], 1483
comparative analgesic and mental effects of increasing plasma concentrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
information loss over time defines memory defect of propofol (CI) [Veselis et al.], 831
intravenous ziprasidone for treatment of delirium in the intensive care unit (CR) [Young et al.], 794
relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- Colonoscopy**
transdiaphragmatic hernia and hypoxemia during (CO) [Dobres et al.], 811
- Complex regional pain syndrome**
preventing development of, after surgery (RA) [Reuben], 1215
type I, presentation and treatment in a 3 year old (CR) [Bukhalo et al.], 542
- Complications. See also Adverse events; Drug toxicity**
acute respiratory distress syndrome after an exothermic Baralyme®-sevoflurane reaction (CR) [Fatheres et al.], 531
apolipoprotein E genotype and cognitive dysfunction after noncardiac surgery (CI) [Abildstrom et al.], 855
bleeding, dysphagia, dysphonia, dysarthria, severe sore throat, and possible recurrent laryngeal, hypoglossal, and lingual nerve injury associated with routine Laryngeal Mask Airway management (CO) [Reier], 1241
cervical epidural steroid injection: impact of cervical epidural anatomy (CO) [Mchaourab], 1238
choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
from continuous positive-pressure breathing to ventilator-induced lung injury (CPR) [Pontoppidan], 1015
detection of gas embolism by Bispectral Index and entropy monitoring in two cases (CO) [Chazot et al.], 1053
emergency treatment of tracheobronchial stent migration (CR) [Amour et al.], 1250
intraneural injection during anterior approach for sciatic nerve block (CR) [Sala-Blanch et al.], 1027
no granuloma and no intracranial hypotension (CO) [Aldrete], 1238
"oily" streak formation on aspiration of cerebrospinal fluid into local anesthetic solution: significance in combined spinal-epidural technique (CO) [Arya et al.], 1049
perioperative compartment syndrome of hand (CR) [Kies et al.], 1252
severe neurological complications after central neuraxial blockades in Sweden 1990-1999 (PRA) [Moen et al.], 950
severe subluxation in the sniffing position in a rheumatoid patient with anterior atlantoaxial subluxation (CR) [Takenaka et al.], 1235
spinal epidural hematoma after spinal anesthesia in patient treated with clopidogrel and enoxaparin (CR) [Litz et al.], 1467
transdiaphragmatic hernia and hypoxemia during colonoscopy (CO) [Dobres et al.], 811
transient profound neurologic deficit associated with thoracic epidural analgesia in an elderly patient (CR) [Jacob et al.], 1470
- Computed tomography**
intraneural injection during anterior approach for sciatic nerve block (CR) [Sala-Blanch et al.], 1027
ultrasound-guided lumbar facet nerve block (PRA) [Greher et al.], 1195
- Consciousness**
can Bispectral Index monitoring predict recovery of consciousness in patients with severe brain injury? (CI) [Fábregas et al.], 43
Narcotrend® does not adequately detect transition between awareness and unconsciousness in surgical patients (CI) [Schneider et al.], 1105
three arguments regarding a paradigm of general anesthesia (CO) [Plourde], 1046
- Coronary circulation and myocardial ischemia**
brief regional ischemic-reperfusion enhances propofol-induced depression in left ventricular function of *in situ* rat hearts (LI) [Kuzumoto et al.], 879
effect of clonidine on cardiovascular morbidity and mortality after noncardiac surgery (CI) [Wallace et al.], 284
high incidence of myocardial ischemia during postpartum hemorrhage of poor management of hemorrhagic shock? (CO) [Frölich et al.], 1037
intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160
myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
postpartum hemorrhage is not the only setting for maternal myocardial ischemia (CO) [Palmer], 1036
- Corticosteroids**
cervical epidural steroid injection: impact of cervical epidural anatomy (CO) [Mchaourab], 1238
hemofiltration but not steroids results in earlier tracheal extubation following cardiopulmonary bypass (CI) [Oliver et al.], 327
inhibitory effect of glucocorticoids on human-cloned 5-hydroxytryptamine_{2A} receptor expressed in *Xenopus* oocytes (LI) [Suzuki et al.], 660
no granuloma and no intracranial hypotension (CO) [Aldrete], 1238
- Critical care**

- Bersten, Burlington (eds), *Ob's Intensive Care Manual, 5th edition* (EM) [Coursin], 268
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- Cyclooxygenase**
- contribution of interaction between NO and cyclooxygenases to production of prostaglandins in carrageenan-induced inflammation (PRA) [Toriyabe et al.], 983
- effect of cyclooxygenase-1 inhibition in postoperative pain is developmentally regulated (LR) [Ririe et al.], 1031
- human septic myopathy: induction of cyclooxygenase, heme oxygenase and activation of ubiquitin proteolytic pathway (CI) [Rabuel et al.], 583
- Cytokines**
- effect of mechanical ventilation on cytokine response to intratracheal lipopolysaccharide (LI) [Whitehead et al.], 52
- mechanical ventilation-induced lung release of (EV) [Dreyfuss et al.], 1

D

- Dantrolene**
- use in "Ecstasy"-mediated hyperthermia (CO) [Rusyniak et al.], 263
- Delirium**
- intravenous ziprasidone for treatment of delirium in the intensive care unit (CR) [Young et al.], 794
- Depth of anesthesia**
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 294
- Narcotrend® does not adequately detect transition between awareness and unconsciousness in surgical patients (CI) [Schneider et al.], 1105
- new closed-loop control system for isoflurane using Bispectral Index outperforms manual control (CI) [Locher et al.], 591
- signal verification of middle latency auditory evoked potentials by automated detection of the brainstem response (CI) [Schneider et al.], 321
- Desflurane**
- anesthetic requirement is increased in redheads (CI) [Liem et al.], 279
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vitro* (LI) [Toma et al.], 1372
- isoflurane and desflurane impair right ventricular-pulmonary arterial coupling in dogs (LI) [Kerbaul et al.], 1357
- relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- Desiccated absorbent**
- acute respiratory distress syndrome after an exothermic Baralyme®-sevoflurane reaction (CR) [Fatheree et al.], 531
- explosion within an anesthesia machine: Baralyme®, high fresh gas flows and sevoflurane concentration (CR) [Castro et al.], 537
- sleeping with uncertainty: anesthetics and desiccated absorbent (EV) [Woehlick], 276
- spontaneous ignition, explosion, and fire with sevoflurane and barium hydroxide lime (CR) [Wu et al.], 534
- Dexamethasone**
- inhibitory effect of glucocorticoids on human-cloned 5-hydroxytryptamine_{2A} receptor expressed in *Xenopus* oocytes (LI) [Suzuki et al.], 660
- Dexmedetomidine**
- asystole and (CO) [Videira et al.], 1479
- cardiac arrest, a preventable yet a possible risk of dexmedetomidine: fact or fiction? (CO) [Muntazar et al.], 1478
- comparative analgesic and mental effects of increasing plasma con-

- centrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
- dexmedetomidine as a total intravenous anesthetic agent (CR) [Ramsay et al.], 787
- dexmedetomidine (EV) [Ebert et al.], 568
- dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059
- information loss over time defines memory defect of propofol: comparison with thiopental and dexmedetomidine (CI) [Veselis et al.], 831
- pharmacodynamics: part I: crossover comparison of analgesic effects of dexmedetomidine and remifentanyl (CI) [Cortinez et al.], 1077
- pharmacodynamics: part I: crossover comparison of respiratory effects of dexmedetomidine and remifentanyl (CI) [Hsu et al.], 1066
- Diabetes**
- interaction of halogenated anesthetics with α - and β -adrenoceptor stimulations in diabetic rat myocardium (LI) [Amour et al.], 1145
- Diaphragm**
- transdiaphragmatic hernia and hypoxemia during colonoscopy (CO) [Dobres et al.], 811
- 1,2-Dichlorohexafluorocyclobutane**
- effects on synaptic inhibition in hippocampus do not underlie amnesic and convulsive properties of (LI) [Perouansky et al.], 66
- DNA**
- propofol attenuates peroxynitrite-mediated DNA damage and apoptosis in cultured astrocytes (LI) [Acquaviva et al.], 1363
- Dopamine**
- effects of different catecholamines on dynamics of volume expansion of crystalloid infusion (LI) [Vane et al.], 1136
- isoflurane alters amount of dopamine transporter expressed on plasma membrane in humans (CI) [Votaw et al.], 1128
- Drug interactions**
- dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059
- interaction of halogenated anesthetics with α - and β -adrenoceptor stimulations in diabetic rat myocardium (LI) [Amour et al.], 1145
- linezolid-bupropion interaction as possible etiology of severe intermittent intraoperative hypertension? (CO) [Marcucci et al.], 1487
- picking safe combinations (EV) [Shafer], 1260
- probenecid interacts with pharmacokinetics of morphine-6-glucuronide in humans (PRA) [Starke et al.], 1394
- Drug toxicity**
- acute respiratory distress syndrome after an exothermic Baralyme®-sevoflurane reaction (CR) [Fatheree et al.], 531
- anesthetic agents and the immature brain: are these toxic or therapeutic? (SA) [Anand et al.], 527
- anesthetic neurotoxicity: the collision between laboratory neuroscience and clinical medicine (EV) [Todd], 272
- cardiac arrest, a preventable yet a possible risk of dexmedetomidine: fact or fiction? (CO) [Muntazar et al.], 1478
- cardiac toxicity from 3% 2-chloroprocaine (CO) [Shroff et al.], 1036
- chloroprocaine or sulfite toxicity? (CO) [Baker], 1247
- in defense of *in vitro* findings (CO) [Lambert et al.], 1246
- dexmedetomidine and asystole (CO) [Videira et al.], 1479
- hesitant to follow the conclusion drawn (CO) [Friedrich et al.], 552
- lactic acidosis during propofol-remifentanyl anesthesia in adult (CR) [Salengros et al.], 241
- local anesthetic cardiac toxicity can present as late-onset hypotension, bradycardia, and asystole (CO) [Weinberg et al.], 553
- metabolic acidosis associated with propofol in absence of other causative factors (CR) [Burow et al.], 239
- methemoglobinemia from hydrogen peroxide in patient with acatalasemia (CR) [Hamada et al.], 247
- mitochondrial injury and caspase activation by lidocaine (PRA) [Johnson et al.], 1184
- molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine

- triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390
- propofol anesthesia associated with metabolic acidosis (EV) [Funston et al.], 6
- ropivacaine-induced asystole (CO) [de Jong], 552

E

Echocardiography

- Konstadt, Sherman, Oka, *Clinical Transesophageal Echocardiography: A Problem-oriented Approach, 2nd edition* (EM) [Brechtman], 268
- myocardial performance index with sevoflurane-pancuronium vs. fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298

Economics, management, and manpower

- effect of different cost drivers on cost per anesthesia minute in different anesthesia subspecialties (EC) [Schuster et al.], 1435
- influence of type of anesthesia provider on costs of labor analgesia to Texas Medicaid program (EC) [Abouleish et al.], 991
- intraservice time is not a proxy for operating room time (CO) [Hannenberget al.], 1041
- introduction of anesthesia resident trainees to operating room does not lead to changes in anesthesia-controlled times for efficiency measures (EC) [Eappen et al.], 1210

"Ecstasy"

- dantrolene use in hyperthermia mediated by (CO) [Rusyniak et al.], 263

Editorial views

- anesthesia-induced developmental neuropoptosis (EV) [Olney et al.], 273
- anesthetic neurotoxicity: the collision between laboratory neuroscience and clinical medicine (EV) [Todd], 272
- are local anesthetics needed for local anesthesia? (EV) [Benhamou], 271
- dexmedetomidine (EV) [Ebert et al.], 568
- dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059
- effect of regional anesthesia on hospital stay for outpatients and definition of postanesthesia care unit bypass eligibility (EV) [Williams], 3
- functional brain imaging: some parameters for success (EV) [Alkire], 817
- mechanical ventilation-induced lung release of (EV) [Dreyfuss et al.], 1
- picking safe combinations (EV) [Shafer], 1260
- propofol anesthesia associated with metabolic acidosis (EV) [Funston et al.], 6
- risk assessment and control require analysis of both outcomes and process of care (EV) [Auroy et al.], 815
- severing the link between acute and chronic pain: anesthesiologist's role in preventive medicine (EV) [Gottschalk et al.], 1063
- shock values (EV) [Shafer], 567
- sleeping with uncertainty: anesthetics and desiccated absorbent (EV) [Wochlick], 276
- troponin: important in severe trauma and a first step in the biological marker revolution (EV) [Riou], 1259
- what makes a "good" anesthesiologist? (EV) [Gaba], 1061

Electroencephalography (EEG)

- application of Bispectral Index[®] and Narcotrend[®] index to measurement of EEG effects of isoflurane with and without burst suppression (CI) [Kreuer et al.], 847
- comparative evaluation of Datex-Ohmeda S/5 entropy module and Bispectral Index[®] monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283
- Narcotrend[®] does not adequately detect transition between awareness and unconsciousness in surgical patients (CI) [Schneider et al.], 1105
- spectral entropy and Bispectral Index as measures of EEG effects of sevoflurane (CI) [Ellerkamann et al.], 1275
- spectral entropy as EEG measure of anesthetic drug effect (CI) [Vanluchene et al.], 34

Emergencies

- emergency treatment of tracheobronchial stent migration (CR) [Amour et al.], 1230
- unanticipated difficult airway: what about emergency cases? (CO) [Heidegger et al.], 1485

Endothelium. See Vascular physiology and pharmacology**Endotoxin**

- effect of mechanical ventilation on cytokine response to intratracheal lipopolysaccharide (LI) [Whitehead et al.], 52
- effect of ONO1714 on lung lymph filtration and gas exchange during endotoxemia in unanesthetized sheep (LI) [Koizumi et al.], 59

Enoxaparin

- spinal epidural hematoma after spinal anesthesia in patient treated with clopidogrel and enoxaparin (CR) [Litz et al.], 1467

Ephedrine

- intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28

Epidural anesthesia and analgesia

- autonomic nervous system response to, in laboring patients by wavelet transform of heart rate and blood pressure variability (CI) [Deschamps et al.], 21
- cervical epidural steroid injection: impact of cervical epidural anatomy (CO) [Mchaourab], 1238
- combinations of bupivacaine, fentanyl, and clonidine for lumbar epidural postoperative analgesia (PRA) [Sveticic et al.], 1381
- does the hole in the dura mater really matter? (CO) [Bernards], 556
- effects of perioperative central neuraxial analgesia on outcome after coronary artery bypass surgery (PRA) [Liu et al.], 153
- efficacy of prophylactic epidural blood patch in preventing postdural puncture headache in parturients after inadvertent dural puncture (PRA) [Scavone et al.], 1422
- epidural neostigmine combined with sufentanil provides balanced and selective analgesia in early labor (PRA) [Roelants et al.], 439
- factors affecting spread and duration of epidural anesthesia with ropivacaine (PRA) [Higuchi et al.], 451
- no granuloma and no intracranial hypotension (CO) [Aldrete], 1238
- "oily" streak formation on aspiration of cerebrospinal fluid into local anesthetic solution: significance in combined spinal-epidural technique (CO) [Arya et al.], 1049
- preventive analgesia and reduced pain disability after gynecologic surgery by laparotomy (PRA) [Katz et al.], 169
- quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- regimens for patient-controlled epidural analgesia during labor (CO) [Paech], 1482
- transient profound neurologic deficit associated with thoracic epidural analgesia in an elderly patient (CR) [Jacob et al.], 1470
- ultrasound guidance in caudal epidural needle placement (PRA) [Chen et al.], 181

Epinephrine

- prevention of muscle blood flow increases after perineural injection of tetrodotoxin (PRA) [Masuda et al.], 1428

Equipment and technology

- Eschmann tracheal tube introducer is not gum, elastic, or a bougie (CO) [El-Orbany et al.], 1240
- foreign body in airway (CO) [Rengasamy et al.], 1486
- inductive warming of intravenous fluids: overheating of toroid heating element during rapid infusion (CR) [Husser et al.], 1019
- in vivo* evaluation of mycobacterial filtration efficacy of three breathing filters (LI) [Vezina et al.], 104
- modified rapid sequence induction using the ProSeal[®] Laryngeal Mask Airway and an Eschmann tracheal tube introducer or gum elastic bougie (CO) [Brimacombe et al.], 1251
- one-millimeter thickness makes a great difference (CO) [Voronov et al.], 809
- oxygen flush valve booby trap (CO) [Mann et al.], 558
- Pardo, *The Manual of Anesthesia Practice, version 1.1.0* (EM) [Warner], 1490
- proposed classification system for extraglottic airway devices (CO) [Brimacombe], 559
- randomized controlled trial comparing the ProSeal[®] Laryngeal Mask

- Airway with the laryngeal tube suction in mechanically ventilated patients (CI) [Gaitini et al.], 316
- self-extraction of intrathecal pump opioid (CO) [Kittelberger et al.], 807
- temporary pacemaker who wouldn't quit (CO) [Parekh et al.], 810
- unassisted gum elastic bougie-guided insertion of the *ProSeal*[®] Laryngeal Mask Airway (CO) [Matioc et al.], 1240
- use of a Fogarty catheter sheath as an endotracheal tube changer (CO) [Kumar et al.], 1486
- Errata**, 565, 1057
- Eye surgery**
- is it in the episcleral space or in the medial canthal extraconal space? (CO) [Fanning], 1045

F

- F6. See 1,2-Dichlorohexafluorocyclobutane**
- Factor XI deficiency**
- more information on patients with (CO) [Roberts et al.], 1253
- Fenoldopam**
- effects of short-term fenoldopam infusion on gastric mucosal blood flow in septic shock (CI) [Morelli et al.], 576
- Fentanyl**
- accuracy of pharmacokinetic models for predicting plasma fentanyl concentrations in lean and obese surgical patients (CI) [Shibutani et al.], 603
- combinations of bupivacaine, fentanyl, and clonidine for lumbar epidural postoperative analgesia (PRA) [Sveticic et al.], 1381
- influence of age on the pharmacokinetics and pharmacodynamics of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 738
- influence of hepatic and intestinal cytochrome P4503A activity on the acute disposition and effects of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 729
- inhibitory effect on acetylcholine-induced relaxation in rat aorta (LI) [Sohn et al.], 89
- myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- where is the fentanyl? (CO) [Thompson], 265
- Fetus**
- maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332
- Fluids and electrolytes**
- effects of different catecholamines on dynamics of volume expansion of crystalloid infusion (LI) [Vane et al.], 1136
- elimination rate constant describing clearance of infused fluid from plasma is independent of large infusion volumes of 0.9% saline in sheep (LI) [Svensén et al.], 666
- inductive warming of intravenous fluids: overheating of toroid heating element during rapid infusion (CR) [Husser et al.], 1019
- influence of hemorrhagic shock followed by crystalloid resuscitation on propofol (LI) [Johnson et al.], 647
- Focal adhesion kinase**
- effects of anesthetic agents on focal adhesion kinase (pp¹²⁵FAK) tyrosine phosphorylation in rat hippocampal slices (LI) [Dahmani et al.], 344

G

- G proteins**
- anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of airway smooth muscle (LI) [Sakihara et al.], 120
- GABA and GABA receptors**
- influence of GABA_A receptor γ_2 splice variants on receptor kinetics and isoflurane modulation (LI) [Benkowitz et al.], 924
- Gabapentin**
- chronic oral gabapentin reduces elements of central sensitization in human experimental hyperalgesia (PRA) [Gotttrup et al.], 1400

- intrathecal gabapentin enhances the analgesic effects of subtherapeutic dose morphine in a rat experimental pancreatitis model (PRA) [Smiley et al.], 759
- Ganglion impar**
- clinical implications of topographic anatomy on (LR) [Oh et al.], 249
- sacral postherpetic neuralgia and successful treatment using a paramedial approach to (CR) [McAllister et al.], 1472
- Gas embolism**
- detection by Bispectral Index and entropy monitoring in two cases (CO) [Chazot et al.], 1053
- surfactant reduction in embolism bubble adhesion and endothelial damage (LI) [Suzuki et al.], 97
- Gas exchange**
- effect of ONO1714 on lung lymph filtration and gas exchange during endotoxemia in unanesthetized sheep (LI) [Koizumi et al.], 59
- Gastrointestinal function and disease**
- effects of short-term fenoldopam infusion on gastric mucosal blood flow in septic shock (CI) [Morelli et al.], 576
- Gender differences**
- comparison of sex- and weight-based *ProSeal*[®] laryngeal mask size selection criteria (CI) [Kihara et al.], 340
- Genetics**
- anesthetic requirement is increased in redheads (CI) [Liem et al.], 279
- apolipoprotein E genotype and cognitive dysfunction after noncardiac surgery (CI) [Abildstrom et al.], 855
- malignant hyperthermia in North America: genetic screening of type I ryanodine receptor gene (CI) [Sic et al.], 824
- mice with a melanocortin 1 receptor mutation have a slightly greater minimum alveolar concentration than control mice (LR) [Xing et al.], 544
- platelet gene polymorphisms and cardiac risk assessment in vascular surgical patients (CI) [Faraday et al.], 1291
- reversal of minimum alveolar concentrations of volatile anesthetics by chromosomal substitution (LR) [Stekiel et al.], 796
- Geriatric patients**
- influence of age on the pharmacokinetics and pharmacodynamics of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 738
- transient profound neurologic deficit associated with thoracic epidural analgesia in an elderly patient (CR) [Jacob et al.], 1470
- GPI 15715**
- comparative pharmacokinetics and pharmacodynamics of the new propofol prodrug GPI 15715 and propofol emulsion (CI) [Fechner et al.], 626
- Gynecologic surgery**
- preventive analgesia and reduced pain disability after laparotomy for (PRA) [Katz et al.], 169

H

- Haloperidol**
- is low-dose haloperidol a useful antiemetic? (RA) [Büttner et al.], 1454
- Halothane**
- anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of airway smooth muscle (LI) [Sakihara et al.], 120
- effect of pain and audiovisual stimulation on depression of acute hypoxic ventilatory response by low-dose halothane in humans (PRA) [Pandit et al.], 1409
- Mg²⁺ dependence of halothane-induced Ca²⁺ release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
- mitochondrial complex I function affects halothane sensitivity in *Caenorhabditis elegans* (LI) [Kayer et al.], 365
- relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409
- Hand**
- early but no long-term benefit of regional compared with general

- anesthesia for ambulatory hand surgery (PRA) [McCartney et al.], 461 (erratum, 1057)
- perioperative compartment syndrome of hand (CR) [Kies et al.], 1232
- Head trauma**
- can Bispectral Index monitoring predict recovery of consciousness in patients with severe brain injury? (CI) [Fàbregas et al.], 43
- Headache**
- efficacy of prophylactic epidural blood patch in preventing post dural puncture headache in parturients after inadvertent dural puncture (PRA) [Scavone et al.], 1422
- Heart function and disease**
- autonomic nervous system response to epidural analgesia in laboring patients by wavelet transform of heart rate and blood pressure variability (CI) [Deschamps et al.], 21
- brief regional ischemic-reperfusion enhances propofol-induced depression in left ventricular function of *in situ* rat hearts (LI) [Kuzumoto et al.], 879
- cardiac toxicity from 3% 2-chloroprocaine (CO) [Shroff et al.], 1036
- cardioprotective properties of sevoflurane in patients undergoing coronary surgery with cardiopulmonary bypass are related to the modalities of its administration (CI) [De Hert et al.], 299
- comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888
- comparison of cisatracurium and vecuronium by infusion in neonates and small infants after congenital heart surgery (CI) [Reich et al.], 1122
- desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vivo* (LI) [Toma et al.], 1372
- direct cardiac effects of coronary site-directed thiopental and its enantiomers: comparison to propofol in conscious sheep (LI) [Mather et al.], 354
- effect of bupivacaine on isolated rabbit heart (LI) [Simon et al.], 937
- effect of clonidine on cardiovascular morbidity and mortality after noncardiac surgery (CI) [Wallace et al.], 284
- effects of isoflurane and sevoflurane on intracellular calcium and contractility in pressure-overload hypertrophy (LI) [Hannon et al.], 675
- excitation-contraction coupling in heart and negative inotropic action of volatile anesthetics (RA) [Hanley et al.], 999
- interaction of ropivacaine with cloned cardiac Kv4.3/KChIP2.2 complexes (LI) [Friederich et al.], 1347
- intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160
- is there any reason to withhold α_2 agonists from patients with coronary disease during surgery? (CO) [Quintin et al.], 1244
- isoflurane and desflurane impair right ventricular-pulmonary arterial coupling in dogs (LI) [Kerbaul et al.], 1357
- Khan MG. *Cardiac Drug Therapy, 6th Edition* (EM) [Sharpe], 562
- learning aid for geometric relations of cardiac valves (CO) [Handa-Tsutsui et al.], 1050
- myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381
- remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918
- temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409
- Heart rhythm and dysrhythmias**
- local anesthetic cardiac toxicity can present as late-onset hypotension, bradycardia, and asystole (CO) [Weinberg et al.], 553
- Heme oxygenase**
- human septic myopathy: induction of cyclooxygenase, heme oxygenase and activation of ubiquitin proteolytic pathway (CI) [Rabuel et al.], 583
- Hemofiltration**
- hemofiltration but not steroids results in earlier tracheal extubation following cardiopulmonary bypass (CI) [Oliver et al.], 327
- Hemorrhage. See Bleeding**
- Herpes zoster**
- sacral postherpetic neuralgia and successful treatment using a paramedial approach to the ganglion impar (CR) [McAllister et al.], 1472
- spinal alcohol neurolysis for intractable thoracic postherpetic neuralgia after test bupivacaine spinal analgesia (CR) [Lauretti et al.], 244
- Hetastarch**
- why the Food and Drug Administration changed the warning label for hetastarch (CO) [Haynes et al.], 560
- Hexanol**
- anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of airway smooth muscle (LI) [Sakihara et al.], 120
- History**
- from continuous positive-pressure breathing to ventilator-induced lung injury (CPR) [Pontoppidan], 1015
- Lai. *Barrell of Lunatics: Places Associated with the First Public Demonstration of Ether Anesthesia* (EM) [Smith], 1255
- seeing the light: protein theories of general anesthesia (CPR) [Franks et al.], 235
- Hydrogen peroxide**
- methemoglobinemia from, in patient with acatalasemia (CR) [Hamada et al.], 247
- Hyperalgesia**
- α_{2A} adrenoceptors contribute to feedback inhibition of capsaicin-induced hyperalgesia (PRA) [Mansikka et al.], 185
- chronic oral gabapentin reduces elements of central sensitization in human experimental hyperalgesia (PRA) [Gottrup et al.], 1400
- tissue monocytes/macrophages in inflammation (PRA) [Brack et al.], 204
- Hyperbaric therapy**
- air embolism during aircraft flight in passenger with a pulmonary cyst: favorable outcome with hyperbaric therapy (CR) [Clouston et al.], 539
- Hyperthermia**
- dantrolene use in "Ecstasy"-mediated hyperthermia (CO) [Rusyniak et al.], 263
- inhibition of sarcoplasmic Ca^{2+} adenosine triphosphatase in porcine skeletal muscle samples with cyclopiazonic acid enables *in vitro* malignant hyperthermia discrimination (LR) [Gerbershagen et al.], 1475
- malignant hyperthermia in North America: genetic screening of type I ryanodine receptor gene (CI) [Sie et al.], 824
- Hypothermia**
- Maier, Steinberg. *Hypothermia and Cerebral Ischemia: Mechanisms and Clinical Applications* (EM) [Petrozza], 1055
- a word on hypothermic preconditioning (CO) [Miyamoto et al.], 1042
- Hypoxemia**
- transdiaphragmatic hernia and hypoxemia during colonoscopy (CO) [Dobres et al.], 811
- Hypoxia**
- effect of pain and audiovisual stimulation on depression of acute hypoxic ventilatory response by low-dose halothane in humans (PRA) [Pandit et al.], 1409
- maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332
- I**
- Imaging and radiology**
- do indomethacin and propofol cause cerebral ischemic damage? (CI) [Rasmussen et al.], 872
- factors affecting spread and duration of epidural anesthesia with ropivacaine (PRA) [Higuchi et al.], 451
- frequent utilization of fluoroscopy is essential for precise needle placement in interventional pain procedure (CO) [Huang], 1481

- functional brain imaging: some parameters for success (EV) [Alkire], 817
- functional MRI studies of pain (PRA) [Ibison et al.], 960
- lumbar plexus in children (PRA) [Kirchmair et al.], 445
- retrograde air embolization during routine radial artery catheter flushing in adult cardiac surgical patients (CI) [Murphy et al.], 614
- the "seesaw" sign: improved sonographic identification of the sciatic nerve (CO) [Schaffhalter-Zoppoth et al.], 808
- ultrasound guidance in caudal epidural needle placement (PRA) [Chen et al.], 181
- ultrasound-guided lumbar facet nerve block (PRA) [Greher et al.], 1195
- Immunology and inflammation**
- contribution of interaction between NO and cyclooxygenases to production of prostaglandins in carrageenan-induced inflammation (PRA) [Toriyabe et al.], 983
- intrathecal morphine and inflammatory masses (CO) [McMillan], 255
- sevoflurane inhibits phorbol-myristate-acetate-induced activator protein-1 activation in human T lymphocytes *in vitro*: potential role of the p38-stress kinase pathway (LI) [Loop et al.], 710
- tissue monocytes/macrophages in inflammation (PRA) [Brack et al.], 204
- Incisions**
- changes in tissue pH and temperature after incision indicate acidosis may contribute to postoperative pain (PRA) [Woo et al.], 468
- Indomethacin**
- do indomethacin and propofol cause cerebral ischemic damage? (CI) [Rasmussen et al.], 872
- Infection**
- human septic myopathy: induction of cyclooxygenase, heme oxygenase and activation of ubiquitin proteolytic pathway (CI) [Rabuel et al.], 583
- local anesthetics reduce mortality and protect against renal and hepatic dysfunction in murine septic peritonitis (LI) [Gallos et al.], 902
- Infection control**
- anesthesiologists and perioperative antibiotic prophylaxis (CO) [Tewari et al.], 259
- in vivo* evaluation of mycobacterial filtration efficacy of three breathing filters (LI) [Vezina et al.], 104
- why anesthesiologists should administer preoperative antibiotics (CO) [Roth], 258
- Inflammation. See Immunology and inflammation**
- Inhalation anesthesia and anesthetics**
- acute respiratory distress syndrome after an exothermic Baralyme®-sevoflurane reaction (CR) [Fatheree et al.], 531
- anesthetic requirement is increased in redheads (CI) [Liem et al.], 279
- application of Bispectral Index® and Narcotrend® index to measurement of EEG effects of isoflurane with and without burst suppression (CI) [Kreuer et al.], 847
- cardioprotective properties of sevoflurane in patients undergoing coronary surgery with cardiopulmonary bypass are related to the modalities of its administration (CI) [De Hert et al.], 299
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- combination of isoflurane with caspase inhibition reduces cerebral injury in rats subjected to focal cerebral ischemia (LI) [Inoue et al.], 75
- desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vivo* (LI) [Toma et al.], 1372
- differential protective effects of volatile anesthetics against renal ischemia-reperfusion injury *in vivo* (LI) [Lee et al.], 1313
- effect of pain and audiovisual stimulation on depression of acute hypoxic ventilatory response by low-dose halothane in humans (PRA) [Pandit et al.], 1409
- effects of isoflurane and sevoflurane on intracellular calcium and contractility in pressure-overload hypertrophy (LI) [Hannon et al.], 675
- Eger EI II, Eisenkraft JB, Weiskopf RB. *The Pharmacology of Inhalational Anesthetics* (EM) [Faust] [Egan], 563
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 294
- explosion within an anesthesia machine: Baralyme®, high fresh gas flows and sevoflurane concentration (CR) [Castro et al.], 537
- influence of GABA_A receptor γ_2 splice variants on receptor kinetics and isoflurane modulation (LI) [Benkowitz et al.], 924
- inhaled anesthetic enhancement of amyloid- β oligomerization and cytotoxicity (LI) [Eckenhoff et al.], 703
- inhibitory effects of isoflurane on protein tyrosine phosphorylation-modulated contraction of rat aortic smooth muscle (LI) [Yu et al.], 1325
- inhibitory effects of the anesthetics propofol and sevoflurane on spontaneous lymphatic vessel activity in rats (LI) [Hattori et al.], 687
- interaction of halogenated anesthetics with α - and β -adrenoceptor stimulations in diabetic rat myocardium (LI) [Amour et al.], 1145
- isoflurane alters amount of dopamine transporter expressed on plasma membrane in humans (CI) [Votaw et al.], 1128
- isoflurane and desflurane impair right ventricular-pulmonary arterial coupling in dogs (LI) [Kerbaul et al.], 1357
- isoflurane preconditioning induces neuroprotection that is inducible nitric oxide synthase-dependent in neonatal rats (LI) [Zhao et al.], 695
- isoflurane reduces carbachol-evoked Ca²⁺ influx in neuronal cells (LI) [Corrales et al.], 895
- Lai, Barrell of *Lumatics: Places Associated with the First Public Demonstration of Ether Anesthesia* (EM) [Smith], 1255
- myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- new closed-loop control system for isoflurane using Bispectral Index outperforms manual control (CI) [Locher et al.], 591
- propofol and sevoflurane depress spinal neurons *in vitro* via different molecular targets (LI) [Grasshoff et al.], 1167
- protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381
- relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- sevoflurane inhibits phorbol-myristate-acetate-induced activator protein-1 activation in human T lymphocytes *in vitro*: potential role of the p38-stress kinase pathway (LI) [Loop et al.], 710
- spectral entropy and Bispectral Index as measures of EEG effects of sevoflurane (CI) [Ellerkmann et al.], 1275
- spontaneous ignition, explosion, and fire with sevoflurane and barium hydroxide lime (CR) [Wu et al.], 534
- temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409
- Intensive care unit (ICU)**
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059
- intravenous ziprasidone for treatment of delirium in the intensive care unit (CR) [Young et al.], 794
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- Intrathecal anesthesia. See Spinal anesthesia and analgesia**
- Intravenous anesthesia and anesthetics**
- brief regional ischemic-reperfusion enhances propofol-induced depression in left ventricular function of *in situ* rat hearts (LI) [Kuzumoto et al.], 879
- comparative analgesic and mental effects of increasing plasma concentrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
- comparative evaluation of Datex-Ohmeda S/5 entropy module and

- Bispectral Index® monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283
- comparative pharmacokinetics and pharmacodynamics of the new propofol prodrug GPI 15715 and propofol emulsion (CI) [Fechner et al.], 626
- dexmedetomidine as a total intravenous anesthetic agent (CR) [Ramsey et al.], 787
- dexmedetomidine (EV) [Ebert et al.], 568
- dexmedetomidine pharmacodynamics: part I: crossover comparison of analgesic effects of dexmedetomidine and remifentanyl (CI) [Cortinez et al.], 1077
- dexmedetomidine pharmacodynamics: part I: crossover comparison of respiratory effects of dexmedetomidine and remifentanyl (CI) [Hsu et al.], 1066
- direct cardiac effects of coronary site-directed thiopental and its enantiomers: comparison to propofol in conscious sheep (LI) [Mather et al.], 354
- effects of cardiopulmonary bypass on sufentanil pharmacokinetics in patients undergoing coronary artery bypass surgery (CI) [Hudson et al.], 862
- estimation of plasma effect site equilibration rate constant of propofol in children using time to peak effect, 1269
- impact of Bispectral Index monitoring on stress response and propofol consumption in patients undergoing coronary artery bypass surgery (CI) [Bauer et al.], 1096
- induction speed is not a determinant of propofol pharmacodynamics (CI) [Doufas et al.], 1112
- influence of hemorrhagic shock followed by crystalloid resuscitation on propofol (LI) [Johnson et al.], 647
- influence of propofol on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhard et al.], 912
- information loss over time defines memory defect of propofol: comparison with thiopental and dexmedetomidine (CI) [Veselis et al.], 831
- inhibitory effects of the anesthetics propofol and sevoflurane on spontaneous lymphatic vessel activity in rats (LI) [Hattori et al.], 687
- intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160
- intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28
- lack of tolerance with propofol in radiation therapy needs patients (CO) [Overdyk], 1044
- metabolic acidosis associated with propofol in absence of other causative factors (CR) [Buwro et al.], 239
- propofol and sevoflurane depress spinal neurons *in vitro* via different molecular targets (LI) [Grasshoff et al.], 1167
- propofol anesthesia associated with metabolic acidosis (EV) [Furston et al.], 6
- remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918
- simultaneous measurement and integrated analysis of analgesia and respiration after intravenous morphine infusion (PRA) [Dahan et al.], 1201
- Intubation. See also Airway management**
- alternative to transtracheal injection for fiberoptic intubation in awake patients: novel noninvasive technique using a standard multiorifice epidural catheter through the bronchoscope suction port (CO) [Long et al.], 1253
- GlideScope®-assisted fiberoptic intubation: new airway teaching method (CO) [Doyle], 1252
- grading scale for mask ventilation (CO) [Han et al.], 267
- hemofiltration but not steroids results in earlier tracheal extubation following cardiopulmonary bypass (CI) [Oliver et al.], 327
- is it the validation or invalidation of the airway management algorithm? (CO) [Rajan], 1484
- teaching residents pediatric fiberoptic intubation of trachea (CI) [Wheeler et al.], 842
- unanticipated difficult airway: what about emergency cases? (CO) [Heidegger et al.], 1485
- use of a Fogarty catheter sheath as an endotracheal tube changer (CO) [Kumar et al.], 1486
- Ions and ion channels**
- comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888
- effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K⁺ channels in rat aorta (LR) [Dojo et al.], 251
- effects of volatile anesthetics on store-operated Ca²⁺ influx in airway smooth muscle (LI) [Pabelick et al.], 373
- excitation-contraction coupling in heart and negative inotropic action of volatile anesthetics (RA) [Hanley et al.], 999
- hemorrhagic shock in swine: nitric oxide and potassium sensitive adenosine triphosphate channel activation (LI) [Musser et al.], 399
- interaction of ropivacaine with cloned cardiac Kv4.3/KChIP2.2 complexes (LI) [Friedrich et al.], 1347
- isoflurane reduces carbachol-evoked Ca²⁺ influx in neuronal cells (LI) [Corrales et al.], 895
- lidocaine increases intracellular sodium concentration through voltage-dependent sodium channels in *Lymnaea* neuron (LI) [Onizuka et al.], 110
- Mg²⁺ dependence of halothane-induced Ca²⁺ release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
- molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390
- protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381
- retigabine stimulates human KCNQ2/Q3 channels in the presence of bupivacaine (LI) [Punke et al.], 430
- temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409
- Ischemia and reperfusion**
- activation of A₂ adenosine receptors attenuates lung injury after *in vivo* reperfusion (LI) [Rivo et al.], 1153
- brief regional ischemic-reperfusion enhances propofol-induced depression in left ventricular function of *in situ* rat hearts (LI) [Kuzumoto et al.], 879
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- do indomethacin and propofol cause cerebral ischemic damage? (CI) [Rasmussen et al.], 872
- influence of propofol on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhard et al.], 912
- Maier, Steinberg. *Hypothermia and Cerebral Ischemia: Mechanisms and Clinical Applications* (EM) [Petrozza], 1055
- myocardial (See **Coronary circulation and myocardial ischemia**)
- rapid ischemic preconditioning for spinal cord protection after transient aortic occlusion (CO) [Toumpoulis et al.], 261
- remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918
- Isoflurane**
- application of Bispectral Index® and Narcotrend® index to measurement of EEG effects of isoflurane with and without burst suppression (CI) [Kreuer et al.], 847
- combination with caspase inhibition reduces cerebral injury in rats subjected to focal cerebral ischemia (LI) [Inoue et al.], 75
- effects of isoflurane and sevoflurane on intracellular calcium and contractility in pressure-overload hypertrophy (LI) [Hannon et al.], 675
- influence of GABA_A receptor γ_2 splice variants on receptor kinetics and isoflurane modulation (LI) [Benkowitz et al.], 924
- inhibitory effects on protein tyrosine phosphorylation-modulated contraction of rat aortic smooth muscle (LI) [Yu et al.], 1325

- isoflurane alters amount of dopamine transporter expressed on plasma membrane in humans (CI) [Votaw et al.], 1128
- isoflurane and desflurane impair right ventricular-pulmonary arterial coupling in dogs (LI) [Kerbaul et al.], 1357
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- relative anesthetic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417

K

Kidney function and disease

- differential protective effects of volatile anesthetics against renal ischemia-reperfusion injury *in vivo* (LI) [Lee et al.], 1313
- local anesthetics reduce mortality and protect against renal and hepatic dysfunction in murine septic peritonitis (LI) [Gallos et al.], 902

L

Labor and delivery

- are local anesthetics needed for local anesthesia? (EV) [Benhamou], 271
- autonomic nervous system response to epidural analgesia in laboring patients by wavelet transform of heart rate and blood pressure variability (CI) [Deschamps et al.], 21
- chronopharmacology of intrathecal sufentanil for labor analgesia (PRA) [Debon et al.], 978
- epidural neostigmine combined with sufentanil provides balanced and selective analgesia in early labor (PRA) [Roelants et al.], 439
- influence of type of anesthesia provider on costs of labor analgesia to Texas Medicaid program (EC) [Abouleish et al.], 991
- intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28
- is the minimum local anesthetic concentration method robust enough? (CO) [Lacassie et al.], 550
- regimens for patient-controlled epidural analgesia during labor (CO) [Pacch], 1482
- Society for Obstetric Anesthesia and Perinatology, 2004 (RSM) [Bucklin], 1257

Lactic acidosis

- during propofol-remifentanyl anesthesia in adult (CR) [Salengros et al.], 241

Laparoscopy

- maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332

Laparotomy

- effects on spontaneous exploratory activity and conditioned operant responding in rat (PRA) [Martin et al.], 191
- preventive analgesia and reduced pain disability after gynecologic surgery by (PRA) [Katz et al.], 169

Laryngeal Mask Airway

- amateur dentistry and the anesthesiologist (CO) [Leyland], 1051
- bleeding, dysphagia, dysphonia, dysarthria, severe sore throat, and possible recurrent laryngeal, hypoglossal, and lingual nerve injury associated with routine Laryngeal Mask Airway management (CO) [Reier], 1241
- comparison of sex- and weight-based *ProSeal*[®] laryngeal mask size selection criteria (CI) [Kihara et al.], 340
- Eschmann tracheal tube introducer is not gum, elastic, or a bougie (CO) [El-Orbany et al.], 1240

- intracuff pressure monitoring during nitrous oxide anesthesia when using the Soft Seal[®] Laryngeal Mask (CO) [Kanazawa et al.], 264

- modified rapid sequence induction using the *ProSeal*[®] Laryngeal Mask Airway and an Eschmann tracheal tube introducer or gum elastic bougie (CO) [Brimacombe et al.], 1251

- randomized controlled trial comparing the *ProSeal*[®] Laryngeal Mask Airway with the laryngeal tube suction in mechanically ventilated patients (CI) [Gaitini et al.], 316

- unassisted gum elastic bougie-guided insertion of the *ProSeal*[®] Laryngeal Mask Airway (CO) [Matioc et al.], 1240

Legal issues

- injuries associated with regional anesthesia in 1980s and 1990s (PRA) [Lee et al.], 143

Length of stay

- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9

- effect of regional anesthesia on hospital stay for outpatients and definition of postanesthesia care unit bypass eligibility (EV) [Williams], 3

Levobupivacaine

- molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390

Lidocaine

- clonidine prolongation of lidocaine analgesia after sciatic nerve block in rats is mediated *via* the hyperpolarization-activated cation current, not by α -adrenoreceptors (PRA) [Kroin et al.], 488

- lidocaine increases intracellular sodium concentration through voltage-dependent sodium channels in *Lymnaea* neuron (LI) [Onizuka et al.], 110

- mitochondrial injury and caspase activation by lidocaine (PRA) [Johnson et al.], 1184

Linezolid

- linezolid-bupropion interaction as possible etiology of severe intermittent intraoperative hypertension? (CO) [Marcucci et al.], 1487

Liver function and disease

- local anesthetics reduce mortality and protect against renal and hepatic dysfunction in murine septic peritonitis (LI) [Gallos et al.], 902

Local anesthesia and anesthetics. See also Regional anesthesia and anesthetics

- are local anesthetics needed for local anesthesia? (EV) [Benhamou], 271

- chloroprocaine or sulfite toxicity? (CO) [Baker], 1247

- comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888

- in defense of *in vitro* findings (CO) [Lambert et al.], 1246

- effect of bupivacaine on isolated rabbit heart (LI) [Simon et al.], 937

- effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K^+ channels in rat aorta (LR) [Dojo et al.], 251

- epinephrine prevents muscle blood flow increases after perineural injection of tetrodotoxin (PRA) [Masuda et al.], 1428

- hesitant to follow the conclusion drawn (CO) [Friederich et al.], 552
- interaction of ropivacaine with cloned cardiac Kv4.3/KChIP2.2 complexes (LI) [Friederich et al.], 1347

- is the minimum local anesthetic concentration method robust enough? (CO) [Lacassie et al.], 550

- lidocaine increases intracellular sodium concentration through voltage-dependent sodium channels in *Lymnaea* neuron (LI) [Onizuka et al.], 110

- local anesthetic cardiac toxicity can present as late-onset hypotension, bradycardia, and asystole (CO) [Weinberg et al.], 553

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- molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390
- novel liposomal bupivacaine formulation to produce ultralong-acting analgesia (PRA) [Grant et al.], 133
- "oily" streak formation on aspiration of cerebrospinal fluid into local anesthetic solution: significance in combined spinal-epidural technique (CO) [Arya et al.], 1049
- popliteal sciatic perineural local anesthetic infusion (PRA) [Ilfeld et al.], 970
- quality of anesthesia practice (CO) [Fahey], 554
- questioning the mechanism of nerve injury (CO) [Lambert et al.], 1249
- retigabine stimulates human KCNQ2/Q3 channels in the presence of bupivacaine (LI) [Punkte et al.], 430
- ropivacaine-induced asystole (CO) [de Jong], 552
- ropivacaine packaging: potential source for drug error (CO) [Bastien et al.], 551
- Lower extremity surgery**
- efficiency of sciatic nerve block *via* posterior Labat approach using double-injection technique (PRA) [Taboada et al.], 138
- Lumbar facet nerve block**
- ultrasound-guided (PRA) [Greher et al.], 1195
- Lumbar plexus block**
- lumbar plexus in children (PRA) [Kirchmair et al.], 445
- Lung function and disease**
- activation of A₂ adenosine receptors attenuates lung injury after *in vivo* reperfusion (LI) [Rivo et al.], 1153
- air embolism during aircraft flight in passenger with a pulmonary cyst: favorable outcome with hyperbaric therapy (CR) [Clouston et al.], 539
- auto-positive end-expiratory pressure masquerading as loss of lung separation during thoracoscopy (CR) [Klafta et al.], 1229
- from continuous positive-pressure breathing to ventilator-induced lung injury (CPR) [Pontoppidan], 1015
- dexmedetomidine pharmacodynamics: part I: crossover comparison of respiratory effects of dexmedetomidine and remifentanyl (CI) [Hsu et al.], 1066
- effect of mechanical ventilation on cytokine response to intratracheal lipopolysaccharide (LI) [Whitehead et al.], 52
- effect of ONO1714 on lung lymph filtration and gas exchange during endotoxemia in unanesthetized sheep (LI) [Koizumi et al.], 59
- effects of peak inspiratory flow on development of ventilator-induced lung injury in rabbits (LI) [Maeda et al.], 722
- emergency treatment of tracheobronchial stent migration (CR) [Amour et al.], 1230
- mechanical ventilation in patients with acute respiratory distress syndrome (CCC) [Rouby et al.], 228
- mechanical ventilation-induced lung release of cytokines (EV) [Dreyfuss et al.], 1
- simultaneous measurement and integrated analysis of analgesia and respiration after intravenous morphine infusion (PRA) [Dahan et al.], 1201
- treatment of rebound pulmonary hypertension: why not sildenafil? (CO) [Raja], 1480
- Lymphatic circulation**
- inhibitory effects of the anesthetics propofol and sevoflurane on spontaneous lymphatic vessel activity in rats (LI) [Hattori et al.], 687
- M**
- Magnesium**
- Mg²⁺ dependence of halothane-induced Ca²⁺ release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
- Magnetic resonance imaging (MRI)**
- do indomethacin and propofol cause cerebral ischemic damage? (CI) [Rasmussen et al.], 872
- factors affecting spread and duration of epidural anesthesia with ropivacaine (PRA) [Higuchi et al.], 451
- functional brain imaging: some parameters for success (EV) [Alkire], 817
- functional MRI studies of pain (PRA) [Ibinson et al.], 960
- Malignant hyperthermia**
- inhibition of sarcoplasmic Ca²⁺ adenosine triphosphatase in porcine skeletal muscle samples with cyclopiazonic acid enables *in vitro* malignant hyperthermia discrimination (LR) [Gerbershagen et al.], 1475
- Mg²⁺ dependence of halothane-induced Ca²⁺ release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
- in North America: genetic screening of type I ryanodine receptor gene (CI) [Sie et al.], 824
- Mechanical ventilation**
- auto-positive end-expiratory pressure masquerading as loss of lung separation during thoracoscopy (CR) [Klafta et al.], 1229
- from continuous positive-pressure breathing to ventilator-induced lung injury (CPR) [Pontoppidan], 1015
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- effects of peak inspiratory flow on development of ventilator-induced lung injury in rabbits (LI) [Maeda et al.], 722
- hemofiltration but not steroids results in earlier tracheal extubation following cardiopulmonary bypass (CI) [Oliver et al.], 327
- lung release of cytokines induced by (EV) [Dreyfuss et al.], 1
- in patients with acute respiratory distress syndrome (CCC) [Rouby et al.], 228
- randomized controlled trial comparing the ProSeal[®] Laryngeal Mask Airway with the laryngeal tube suction in mechanically ventilated patients (CI) [Gaitini et al.], 316
- recruitment maneuvers after a positive end-expiratory pressure trial do not induce sustained effects in early adult respiratory distress syndrome (CI) [Oczenski et al.], 620
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- a sign is not a sign, as PEEP blows by (CO) [Romanoff], 1047
- Medical education**
- acute care skills in anesthesia practice (CI) [Murray et al.], 1084
- GlideScope[®]-assisted fiberoptic intubation: new airway teaching method (CO) [Doyle], 1252
- Greaves, Dodds, Kumar, Mets (eds), *Clinical Teaching: A Guide to Teaching Practical Anaesthesia* (EM) [Barnes], 812
- introduction of anesthesia resident trainees to operating room does not lead to changes in anesthesia-controlled times for efficiency measures (EC) [Eappen et al.], 1210
- learning aid for geometric relations of cardiac valves (CO) [Handa-Tsutsui et al.], 1050
- Pardo, *The Manual of Anesthesia Practice, version 1.1.0* (EM) [Warner], 1490
- teaching residents pediatric fiberoptic intubation of trachea (CI) [Wheeler et al.], 842
- what makes a "good" anesthesiologist? (EV) [Gaba], 1061
- Medical errors**
- ropivacaine packaging: potential source for drug error (CO) [Bastien et al.], 551
- Youngberg, Hatlie, *The Patient Safety Handbook* (EM) [Warner], 1489
- Meeting reports**
- Society for Obstetric Anesthesia and Perinatology, 2004 (RSM) [Bucklin], 1257
- Melanocortin-1 receptor mutation**
- anesthetic requirement is increased in redheads (CI) [Liem et al.], 279
- mice with a melanocortin 1 receptor mutation have a slightly greater minimum alveolar concentration than control mice (LR) [Xing et al.], 544
- Memory**
- cholinesterase inhibitors, neuromuscular blocking drugs and perioperative memory enhancement (CO) [Fodale et al.], 1483
- effects on synaptic inhibition in hippocampus do not underlie amnesic and convulsive properties of 1,2-dichlorohexafluorocyclobutane (LI) [Perouansky et al.], 66
- information loss over time defines memory defect of propofol (CI) [Veselis et al.], 831

- relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- Mepivacaine**
time sequence of sensory changes after upper extremity block (PRA) [Paqueron et al.], 162
- Metabolic acidosis**
associated with propofol in absence of other causative factors (CR) [Burov et al.], 239
propofol anesthesia associated with (EV) [Funston et al.], 6
- Methemoglobinemia**
from hydrogen peroxide in patient with acatalasemia (CR) [Hamada et al.], 247
- 3,4-Methylenedioxymethamphetamine ("Ecstasy")**
dantrolene use in hyperthermia mediated by (CO) [Rusyniak et al.], 263
- Methylprednisolone**
inhibitory effect of glucocorticoids on human-cloned 5-hydroxytryptamine_{5A} receptor expressed in *Xenopus* oocytes (LI) [Suzuki et al.], 660
- Meyer-Overton rule**
relative amnesic potency of five inhalational anesthetics (LI) [Alkire et al.], 417
- Midazolam**
choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
coadministration of propofol and midazolam decreases Bispectral Index value as a result of synergic muscle relaxant action on the motor system (CO) [Fodale et al.], 799
myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- Minimum alveolar concentration**
mice with a melanocortin 1 receptor mutation have a slightly greater minimum alveolar concentration than control mice (LR) [Xing et al.], 544
neuroprotection by nitrous oxide and xenon and its relation to (CO) [Abraini et al.], 260
reversal of minimum alveolar concentrations of volatile anesthetics by chromosomal substitution (LR) [Stekiel et al.], 796
- Mitogen activated protein kinases**
desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vivo* (LI) [Toma et al.], 1372
- Models and modeling**
activation of A₂ adenosine receptors attenuates lung injury after *in vivo* reperfusion (LI) [Rivo et al.], 1153
anesthesia-induced developmental neuroapoptosis (EV) [Olney et al.], 273
anesthetic neurotoxicity: the collision between laboratory neuroscience and clinical medicine (EV) [Todd], 272
brief regional ischemic-reperfusion enhances propofol-induced depression in left ventricular function of *in situ* rat hearts (LI) [Kuzumoto et al.], 879
clonidine prolongation of lidocaine analgesia after sciatic nerve block in rats is mediated *via* the hyperpolarization-activated cation current, not by α -adrenoreceptors (PRA) [Kroin et al.], 488
combination of isoflurane with caspase inhibition reduces cerebral injury in rats subjected to focal cerebral ischemia (LI) [Inoue et al.], 75
comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888
contribution of interaction between NO and cyclooxygenases to production of prostaglandins in carrageenan-induced inflammation (PRA) [Toriyabe et al.], 983
delta-opioid agonist SNC80 can attenuate the development of dynorphin A-induced tactile allodynia in rats (CR) [Kawaraguchi et al.], 546
desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vivo* (LI) [Toma et al.], 1372
detection of neuropathic pain in rat model of peripheral nerve injury (PRA) [Hogan et al.], 476
differential protective effects of volatile anesthetics against renal ischemia-reperfusion injury *in vivo* (LI) [Lee et al.], 1313
direct cardiac effects of coronary site-directed thiopental and its enantiomers: comparison to propofol in conscious sheep (LI) [Mather et al.], 354
effect of bupivacaine on isolated rabbit heart (LI) [Simon et al.], 937
effect of cyclooxygenase-1 inhibition in postoperative pain is developmentally regulated (LR) [Ririe et al.], 1031
effect of mechanical ventilation on cytokine response to intratracheal lipopolysaccharide (LI) [Whitehead et al.], 52
effect of ONO1714 on lung lymph filtration and gas exchange during endotoxemia in unanesthetized sheep (LI) [Koizumi et al.], 59
effects of anesthetic agents on focal adhesion kinase (pp¹²⁵FAK) tyrosine phosphorylation in rat hippocampal slices (LI) [Dahmani et al.], 344
effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K⁺ channels in rat aorta (LR) [Dojo et al.], 251
effects of different catecholamines on dynamics of volume expansion of crystalloid infusion (LI) [Vane et al.], 1136
effects of isoflurane and sevoflurane on intracellular calcium and contractility in pressure-overload hypertrophy (LI) [Hannon et al.], 675
effects of laparotomy on spontaneous exploratory activity and conditioned operant responding in rat (PRA) [Martin et al.], 191
effects of peak inspiratory flow on development of ventilator-induced lung injury in rabbits (LI) [Maeda et al.], 722
effects on synaptic inhibition in hippocampus do not underlie amnesic and convulsive properties of 1,2-dichlorohexafluorocyclobutane (LI) [Perouiansky et al.], 66
elimination rate constant describing clearance of infused fluid from plasma is independent of large infusion volumes of 0.9% saline in sheep (LI) [Svensén et al.], 666
epinephrine prevents muscle blood flow increases after perineural injection of tetrodotoxin (PRA) [Masuda et al.], 1428
hemorrhagic shock in swine: nitric oxide and potassium sensitive adenosine triphosphate channel activation (LI) [Musser et al.], 399
inducible NOS mediates delayed cardioprotection induced by morphine *in vivo* (LI) [Jiang et al.], 82
influence of hemorrhagic shock followed by crystalloid resuscitation on propofol (LI) [Johanson et al.], 647
influence of propofol on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhard et al.], 912
inhibition of sarcoplasmic Ca²⁺ adenosine triphosphatase in porcine skeletal muscle samples with cyclopiazonic acid enables *in vitro* malignant hyperthermia discrimination (LR) [Gerbershagen et al.], 1475
inhibitory effect of fentanyl on acetylcholine-induced relaxation in rat aorta (LI) [Sohn et al.], 89
inhibitory effect of glucocorticoids on human-cloned 5-hydroxytryptamine_{5A} receptor expressed in *Xenopus* oocytes (LI) [Suzuki et al.], 660
inhibitory effects of isoflurane on protein tyrosine phosphorylation-modulated contraction of rat aortic smooth muscle (LI) [Yu et al.], 1325
inhibitory effects of the anesthetics propofol and sevoflurane on spontaneous lymphatic vessel activity in rats (LI) [Hattori et al.], 687
in vivo evaluation of mycobacterial filtration efficacy of three breathing filters (LI) [Vezina et al.], 104
interaction of halogenated anesthetics with α - and β -adrenoceptor stimulations in diabetic rat myocardium (LI) [Amour et al.], 1145
intrathecal gabapentin enhances the analgesic effects of subtherapeutic dose morphine in a rat experimental pancreatitis model (PRA) [Smiley et al.], 759
intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160

- isoflurane and desflurane impair right ventricular-pulmonary arterial coupling in dogs (LI) [Kerbaul et al.], 1357
- isoflurane preconditioning induces neuroprotection that is inducible nitric oxide synthase-dependent in neonatal rats (LI) [Zhao et al.], 695
- lidocaine increases intracellular sodium concentration through voltage-dependent sodium channels in *Lymnaea* neuron (LI) [Onizuka et al.], 110
- maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332
- mice with a melanocortin 1 receptor mutation have a slightly greater minimum alveolar concentration than control mice (LR) [Xing et al.], 544
- propofol and sevoflurane depress spinal neurons *in vitro* via different molecular targets (LI) [Grasshoff et al.], 1167
- remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918
- reversal of minimum alveolar concentrations of volatile anesthetics by chromosomal substitution (LR) [Stekiel et al.], 796
- spinal antinociceptive effect of nocistatin in neuropathic rats is blocked by D-serine (PRA) [Muth-Selbach et al.], 753
- surfactant reduction in embolism bubble adhesion and endothelial damage (LI) [Suzuki et al.], 97
- tissue monocytes/macrophages in inflammation (PRA) [Brack et al.], 204
- Monitoring**
- application of Bispectral Index[®] and Narcotrend[®] index to measurement of EEG effects of isoflurane with and without burst suppression (CI) [Kreuer et al.], 847
- can Bispectral Index monitoring predict recovery of consciousness in patients with severe brain injury? (CI) [Fábregas et al.], 43
- coadministration of propofol and midazolam decreases Bispectral Index value as a result of synergic muscle relaxant action on the motor system (CO) [Fodale et al.], 799
- comparative evaluation of Datex-Ohmeda S/5 entropy module and Bispectral Index[®] monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283
- detection of gas embolism by Bispectral Index and entropy monitoring in two cases (CO) [Chazot et al.], 1053
- effect of Bispectral Index monitoring on ambulatory anesthesia (CI) [Liu], 311
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 29
- impact of Bispectral Index monitoring on stress response and propofol consumption in patients undergoing coronary artery bypass surgery (CI) [Bauer et al.], 1096
- intracuff pressure monitoring during nitrous oxide anesthesia when using the Soft Seal[®] Laryngeal Mask (CO) [Kanazawa et al.], 264
- monitoring direct thrombin inhibitors: time for standardization (CO) [Welsby et al.], 1048
- normal Bispectral Index values in healthy volunteers (CO) [Soto et al.], 799
- spectral entropy and Bispectral Index as measures of EEG effects of sevoflurane (CI) [Ellerkamann et al.], 1275
- spectral entropy as EEG measure of anesthetic drug effect (CI) [Vanluchene et al.], 34
- Monocytes/macrophages**
- in inflammation (PRA) [Brack et al.], 204
- Morphine**
- inducible NOS mediates delayed cardioprotection induced by morphine *in vivo* (LI) [Jiang et al.], 82
- intrathecal gabapentin enhances the analgesic effects of subtherapeutic dose morphine in a rat experimental pancreatitis model (PRA) [Smiley et al.], 759
- intrathecal morphine and inflammatory masses (CO) [McMillan], 255
- intrathecal opioid infusions (CO) [Aldrete], 256
- probenecid interacts with pharmacokinetics of morphine-6-glucuronide in humans (PRA) [Starke et al.], 1394
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- simultaneous measurement and integrated analysis of analgesia and respiration after intravenous morphine infusion (PRA) [Dahan et al.], 1201
- Mortality**
- effect of clonidine on cardiovascular morbidity and mortality after noncardiac surgery (CI) [Wallace et al.], 284
- local anesthetics reduce mortality and protect against renal and hepatic dysfunction in murine septic peritonitis (LI) [Gallos et al.], 902
- Muscle. See Skeletal muscle; Smooth muscle**
- Myocardial ischemia. See Coronary circulation and myocardial ischemia**
- N**
- Narcotrend[®]**
- application of Bispectral Index[®] and Narcotrend[®] index to measurement of EEG effects of isoflurane with and without burst suppression (CI) [Kreuer et al.], 847
- Narcotrend[®] does not adequately detect transition between awareness and unconsciousness in surgical patients (CI) [Schneider et al.], 1105
- Nasogastric tube**
- insertion made easy (CO) [Bong et al.], 266
- Nausea and vomiting**
- is low-dose haloperidol a useful antiemetic? (RA) [Büttner et al.], 1454
- Needle placement**
- frequent utilization of fluoroscopy is essential for precise needle placement in interventional pain procedure (CO) [Huang], 1481
- ultrasound guidance in caudal epidural needle placement (PRA) [Chen et al.], 181
- Neostigmine**
- are local anesthetics needed for local anesthesia? (EV) [Benhamou], 271
- epidural neostigmine combined with sufentanil provides balanced and selective analgesia in early labor (PRA) [Roelants et al.], 439
- Nerve blocks**
- clonidine prolongation of lidocaine analgesia after sciatic nerve block in rats is mediated *via* the hyperpolarization-activated cation current, not by α -adrenoreceptors (PRA) [Kroin et al.], 488
- comparison of infraclavicular nerve block *versus* general anesthesia for hand and wrist day-case surgeries (PRA) [Hadzic et al.], 127
- effects of long-term nerve blockade in the spared nerve injury model (CO) [Kissin et al.], 806
- efficiency of sciatic nerve block *via* posterior Labat approach using double-injection technique (PRA) [Taboada et al.], 138
- epinephrine prevents muscle blood flow increases after perineural injection of tetrodotoxin (PRA) [Masuda et al.], 1428
- intraneural injection during anterior approach for sciatic nerve block (CR) [Sala-Blanch et al.], 1027
- lumbar plexus in children (PRA) [Kirchmair et al.], 445
- sacral postherpetic neuralgia and successful treatment using a paramedial approach to the ganglion impar (CR) [McAllister et al.], 1472
- the "seesaw" sign: improved sonographic identification of the sciatic nerve (CO) [Schafhalter-Zoppoth et al.], 808
- severe neurological complications after central neuraxial blockades in Sweden 1990-1999 (PRA) [Moen et al.], 950
- time sequence of sensory changes after upper extremity block (PRA) [Paqueron et al.], 162
- ultrasound-guided lumbar facet nerve block (PRA) [Greher et al.], 1195
- Nerve injury**
- bleeding, dysphagia, dysphonia, dysarthria, severe sore throat, and possible recurrent laryngeal, hypoglossal, and lingual nerve injury associated with routine Laryngeal Mask Airway management (CO) [Reier], 1241
- chloroprocaine or sulfite toxicity? (CO) [Baker], 1247

- in defense of *in vitro* findings (CO) [Lambert et al.], 1246
 detection of neuropathic pain in rat model of peripheral nerve injury (PRA) [Hogan et al.], 476
 effects of long-term nerve blockade in the spared nerve injury model (CO) [Kissin et al.], 806
 intraneural injection during anterior approach for sciatic nerve block (CR) [Sala-Blanch et al.], 1027
 questioning the mechanism of nerve injury (CO) [Lambert et al.], 1249
- Neuralgia**
 sacral postherpetic neuralgia and successful treatment using a paramedial approach to the ganglion impar (CR) [McAllister et al.], 1472
 spinal alcohol neurolysis for intractable thoracic postherpetic neuralgia after test bupivacaine spinal analgesia (CR) [Lauretti et al.], 244
- Neuromuscular transmission and blockade**
 cholinesterase inhibitors, neuromuscular blocking drugs and perioperative memory enhancement (CO) [Fodale et al.], 1483
 coadministration of propofol and midazolam decreases Bispectral Index value as a result of synergic muscle relaxant action on the motor system (CO) [Fodale et al.], 799
 comparison of cisatracurium and vecuronium by infusion in neonates and small infants after congenital heart surgery (CI) [Reich et al.], 1122
 myocardial performance index with sevoflurane-pancuronium vs. fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- Neuronal cells**
 influence of propofol on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhard et al.], 912
 isoflurane reduces carbachol-evoked Ca^{2+} influx in neuronal cells (LI) [Corrales et al.], 895
 propofol and sevoflurane depress spinal neurons *in vitro* via different molecular targets (LI) [Grasshoff et al.], 1167
 selective postsynaptic inhibition of tonic-firing neurons in substantia gelatinosa by μ -opioid agonist (PRA) [Santos et al.], 1177
- Neuroprotection**
 combination of isoflurane with caspase inhibition reduces cerebral injury in rats subjected to focal cerebral ischemia (LI) [Inoue et al.], 75
 isoflurane preconditioning induces neuroprotection that is inducible nitric oxide synthase-dependent in neonatal rats (LI) [Zhao et al.], 695
 by nitrous oxide and xenon and its relation to minimum alveolar concentration (CO) [Abraini et al.], 260
 rapid ischemic preconditioning for spinal cord protection after transient aortic occlusion (CO) [Toumpoulis et al.], 261
- Nitric oxide (NO)**
 contribution of interaction between NO and cyclooxygenases to production of prostaglandins in carrageenan-induced inflammation (PRA) [Toriyabe et al.], 983
 hemorrhagic shock in swine: nitric oxide and potassium sensitive adenosine triphosphate channel activation (LI) [Musser et al.], 399
- Nitric oxide synthase (NOS)**
 effect of ONO1714 on lung lymph filtration and gas exchange during endotoxemia in unanesthetized sheep (LI) [Koizumi et al.], 59
 inducible NOS mediates delayed cardioprotection induced by morphine *in vitro* (LI) [Jiang et al.], 82
 isoflurane preconditioning induces neuroprotection that is inducible nitric oxide synthase-dependent in neonatal rats (LI) [Zhao et al.], 695
- Nitrous oxide**
 intracuff pressure monitoring during nitrous oxide anesthesia when using the Soft Seal[®] Laryngeal Mask (CO) [Kanazawa et al.], 264
 neuroprotection by nitrous oxide and xenon and its relation to minimum alveolar concentration (CO) [Abraini et al.], 260
 relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- Nocistatin**
 spinal antinociceptive effect of nocistatin in neuropathic rats is blocked by D-serine (PRA) [Muth-Selbach et al.], 753
- O**
- Obesity**
 accuracy of pharmacokinetic models for predicting plasma fentanyl concentrations in lean and obese surgical patients (CI) [Shibutani et al.], 603
- Obstetric patients**
 are local anesthetics needed for local anesthesia? (EV) [Benhamou], 271
 autonomic nervous system response to epidural analgesia in laboring patients by wavelet transform of heart rate and blood pressure variability (CI) [Deschamps et al.], 21
 chronopharmacology of intrathecal sufentanil for labor analgesia (PRA) [Debon et al.], 978
 efficacy of prophylactic epidural blood patch in preventing postdural puncture headache in parturients after inadvertent dural puncture (PRA) [Scavone et al.], 1422
 epidural neostigmine combined with sufentanil provides balanced and selective analgesia in early labor (PRA) [Roelants et al.], 439
 high incidence of myocardial ischemia during postpartum hemorrhage of poor management of hemorrhagic shock? (CO) [Frölich et al.], 1037
 influence of type of anesthesia provider on costs of labor analgesia to Texas Medicaid program (EC) [Abouleish et al.], 991
 intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28
 is the minimum local analgesic concentration method robust enough? (CO) [Lacassie et al.], 550
 postpartum hemorrhage is not the only setting for maternal myocardial ischemia (CO) [Palmer], 1036
 regimens for patient-controlled epidural analgesia during labor (CO) [Paech], 1482
 severe thrombocytopenia, type 2B von Willebrand disease and pregnancy (CR) [Hepner et al.], 1465
 Society for Obstetric Anesthesia and Perinatology, 2004 (RSM) [Bucklin], 1257
- ONO1714**
 effect on lung lymph filtration and gas exchange during endotoxemia in unanesthetized sheep (LI) [Koizumi et al.], 59
- Operating room management**
 intraservice time is not a proxy for operating room time (CO) [Hannenberget al.], 1041
 introduction of anesthesia resident trainees to operating room does not lead to changes in anesthesia-controlled times for efficiency measures (EC) [Eappen et al.], 1210
 making management decisions on day of surgery based on operating room efficiency and patient waiting times (RA) [Dexter et al.], 1444
- Opioids**
 accuracy of pharmacokinetic models for predicting plasma fentanyl concentrations in lean and obese surgical patients (CI) [Shibutani et al.], 603
 comparative analgesic and mental effects of increasing plasma concentrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
 delta-opioid agonist SNC80 can attenuate the development of dynorphin A-induced tactile allodynia in rats (CR) [Kawaraguchi et al.], 546
 dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059
 inducible NOS mediates delayed cardioprotection induced by morphine *in vivo* (LI) [Jiang et al.], 82
 intrathecal gabapentin enhances the analgesic effects of subtherapeutic dose morphine in a rat experimental pancreatitis model (PRA) [Smiley et al.], 759
 intrathecal morphine and inflammatory masses (CO) [McMillan], 255
 intrathecal opioid infusions (CO) [Aldrete], 256
 perioperative management of acute pain in opioid-dependent patient (RA) [Mitra et al.], 212

- probenecid interacts with pharmacokinetics of morphine-6-glucuronide in humans (PRA) [Starke et al.], 1394
- quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- selective postsynaptic inhibition of tonic-firing neurons in substantia gelatinosa by μ -opioid agonist (PRA) [Santos et al.], 1177
- self-extraction of intrathecal pump opioid (CO) [Kittelberger et al.], 807
- simultaneous measurement and integrated analysis of analgesia and respiration after intravenous morphine infusion (PRA) [Dahan et al.], 1201
- Orthopedic surgery**
- comparison of infraclavicular nerve block *versus* general anesthesia for hand and wrist day-case surgeries (PRA) [Hadzic et al.], 127
- efficiency of sciatic nerve block *via* posterior Labat approach using double-injection technique (PRA) [Taboada et al.], 138
- factors affecting spread and duration of epidural anesthesia with ropivacaine (PRA) [Higuchi et al.], 451
- popliteal sciatic perineural local anesthetic infusion (PRA) [Ilfeld et al.], 970
- quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- Oxygen saturation**
- transdiaphragmatic hernia and hypoxemia during colonoscopy (CO) [Dobres et al.], 811
- P**
- Pacemakers**
- temporary pacemaker who wouldn't quit (CO) [Parekh et al.], 810
- Pain, cancer**
- influence of age on the pharmacokinetics and pharmacodynamics of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 738
- influence of hepatic and intestinal cytochrome P4503A activity on the acute disposition and effects of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 729
- Pain, muscle**
- pharmacologic treatment (RA) [Cohen et al.], 495
- Pain, neuropathic**
- chronic oral gabapentin reduces elements of central sensitization in human experimental hyperalgesia (PRA) [Gottrup et al.], 1400
- detection of neuropathic pain in rat model of peripheral nerve injury (PRA) [Hogan et al.], 476
- spinal antinociceptive effect of nocistatin in neuropathic rats is blocked by D-serine (PRA) [Muth-Selbach et al.], 753
- Pain, phantom limb**
- reactivation of phantom limb pain immediately after cervical spinal decompression (CR) [Iida et al.], 790
- Pain, postoperative**
- changes in tissue pH and temperature after incision indicate acidosis may contribute to postoperative pain (PRA) [Woo et al.], 468
- combinations of bupivacaine, fentanyl, and clonidine for lumbar epidural postoperative analgesia (PRA) [Sveticic et al.], 1381
- effect of cyclooxygenase-1 inhibition in postoperative pain is developmentally regulated (LR) [Ririe et al.], 1031
- effects of laparotomy on spontaneous exploratory activity and conditioned operant responding in rat (PRA) [Martin et al.], 191
- preventive analgesia and reduced pain disability after gynecologic surgery by laparotomy (PRA) [Katz et al.], 169
- quality of, using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- Pain management**
- comparative analgesic and mental effects of increasing plasma concentrations of dexmedetomidine and alfentanil in humans (PRA) [Angst et al.], 744
- dexmedetomidine pharmacodynamics: part I: crossover comparison of analgesic effects of dexmedetomidine and remifentanyl (CI) [Cortinez et al.], 1077
- frequent utilization of fluoroscopy is essential for precise needle placement in interventional pain procedure (CO) [Huang], 1481
- influence of hepatic and intestinal cytochrome P4503A activity on the acute disposition and effects of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 729
- intrathecal gabapentin enhances the analgesic effects of subtherapeutic dose morphine in a rat experimental pancreatitis model (PRA) [Smiley et al.], 759
- intrathecal morphine and inflammatory masses (CO) [McMillan], 255
- intrathecal opioid infusions (CO) [Aldrete], 256
- novel liposomal bupivacaine formulation to produce ultralong-acting analgesia (PRA) [Grant et al.], 133
- O'Connor, T, Abram S, *Atlas of Pain Injection Techniques* (EM) [Rowlison], 562
- perioperative management of acute pain in opioid-dependent patient (RA) [Mitra et al.], 212
- presentation and treatment of complex regional pain syndrome type 1 in a 3 year old (CR) [Bukhalo et al.], 542
- regimens for patient-controlled epidural analgesia during labor (CO) [Paech], 1482
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- self-extraction of intrathecal pump opioid (CO) [Kittelberger et al.], 807
- severe neurological complications after central neuraxial blockades in Sweden 1990–1999 (PRA) [Moen et al.], 950
- severing the link between acute and chronic pain: anesthesiologist's role in preventive medicine (EV) [Gottschalk et al.], 1063
- Waldman SD, *Atlas of Interventional Pain Management, 2nd Edition* (EM) [Huntton], 812
- Pain mechanisms**
- α_{2A} adrenoceptors contribute to feedback inhibition of capsaicin-induced hyperalgesia (PRA) [Mansikka et al.], 185
- delta-opioid agonist SNC80 can attenuate the development of dynorphin A-induced tactile allodynia in rats (CR) [Kawaraguchi et al.], 546
- functional MRI studies of pain (PRA) [Ibinson et al.], 960
- spinal antinociceptive effect of nocistatin in neuropathic rats is blocked by D-serine (PRA) [Muth-Selbach et al.], 753
- tissue monocytes/macrophages in inflammation (PRA) [Brack et al.], 204
- Pancuronium**
- myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- Patient positioning**
- movement of the cauda equina during the lateral decubitus position with fully flexed leg (CO) [Takiguchi et al.], 1250
- proper shoulder position for subclavian venipuncture (CI) [Kitagawa et al.], 1306
- severe subluxation in the sniffing position in a rheumatoid patient with anterior atlantoaxial subluxation (CR) [Takenaka et al.], 1235
- Pediatric patients**
- anesthetic agents and the immature brain: are these toxic or therapeutic? (SA) [Anand et al.], 527
- comparison of cisatracurium and vecuronium by infusion in neonates and small infants after congenital heart surgery (CI) [Reich et al.], 1122
- estimation of plasma effect site equilibration rate constant of propofol in children using time to peak effect, 1269
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 294
- lumbar plexus in children (PRA) [Kirchmair et al.], 445
- myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- presentation and treatment of complex regional pain syndrome type 1 in a 3 year old (CR) [Bukhalo et al.], 542
- teaching residents pediatric fiberoptic intubation of trachea (CI) [Wheeler et al.], 842

Personal digital assistants

Pardo, *The Manual of Anesthesia Practice, version 1.1.0* (EM) [Warner], 1490

Personal protective equipment

hazards and difficulties of wearing chemical warfare gear (CO) [Bloomfield], 1478

Phantom limb syndrome

reactivation of phantom limb pain immediately after cervical spinal decompression (CR) [Iida et al.], 790

Pharmacokinetics and pharmacodynamics

accuracy of pharmacokinetic models for predicting plasma fentanyl concentrations in lean and obese surgical patients (CI) [Shibutani et al.], 603

chronopharmacology of intrathecal sufentanil for labor analgesia (PRA) [Debon et al.], 978

comparative pharmacokinetics and pharmacodynamics of the new propofol prodrug GPI 15715 and propofol emulsion (CI) [Fechner et al.], 626

dexmedetomidine pharmacodynamics: part I: crossover comparison of analgesic effects of dexmedetomidine and remifentanyl (CI) [Cortinez et al.], 1077

dexmedetomidine pharmacodynamics: part I: crossover comparison of respiratory effects of dexmedetomidine and remifentanyl (CI) [Hsu et al.], 1066

dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059

effects of cardiopulmonary bypass on sufentanil pharmacokinetics in patients undergoing coronary artery bypass surgery (CI) [Hudson et al.], 862

Eger II EL, Eisenkraft JB, Weiskopf RB, *The Pharmacology of Inhaled Anesthetics* (EM) [Faust] [Egan], 563

estimation of plasma effect site equilibration rate constant of propofol in children using time to peak effect, 1269

induction speed is not a determinant of propofol pharmacodynamics (CI) [Doulas et al.], 1112

influence of age on the pharmacokinetics and pharmacodynamics of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 738

influence of hepatic and intestinal cytochrome P4503A activity on the acute disposition and effects of oral transmucosal fentanyl citrate (PRA) [Kharasch et al.], 729

lack of tolerance with propofol in radiation therapy needs patients (CO) [Overdyk], 1044

probenecid interacts with pharmacokinetics of morphine-6-glucuronide in humans (PRA) [Starke et al.], 1394

Phenotype

anesthetic requirement is increased in redheads (CI) [Liem et al.], 279

Phenylephrine

intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28

Pheochromocytoma

vasopressin for hemodynamic rescue in catecholamine-resistant vasoplegic shock after resection of massive pheochromocytoma (CR) [Augoustides et al.], 1022

Platelets

gene polymorphisms and cardiac risk assessment in vascular surgical patients (CI) [Faraday et al.], 1291

Positive end-expiratory pressure (PEEP). See also Mechanical ventilation

auto-positive end-expiratory pressure masquerading as loss of lung separation during thoracoscopy (CR) [Klafta et al.], 1229

recruitment maneuvers after a positive end-expiratory pressure trial do not induce sustained effects in early adult respiratory distress syndrome (CI) [Oczenski et al.], 620

a sign is not a sign, as PEEP blows by (CO) [Romanoff], 1047

Postanesthesia care unit

effect of regional anesthesia on hospital stay for outpatients and definition of postanesthesia care unit bypass eligibility (EV) [Williams], 3

Postherpetic neuralgia

sacral postherpetic neuralgia and successful treatment using a paramedial approach to the ganglion impar (CR) [McAllister et al.], 1472

spinal alcohol neurolysis for intractable thoracic postherpetic neu-

ralgia after test bupivacaine spinal analgesia (CR) [Lauretti et al.], 244

Potassium and potassium channels

effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K^+ channels in rat aorta (LR) [Dojo et al.], 251

hemorrhagic shock in swine: nitric oxide and potassium sensitive adenosine triphosphate channel activation (LI) [Musser et al.], 399

interaction of ropivacaine with cloned cardiac $Kv4.3/KChIP2.2$ complexes (LI) [Friederich et al.], 1347

molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390

protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381

retigabine stimulates human $KCNQ2/Q3$ channels in the presence of bupivacaine (LI) [Punke et al.], 430

Practice guidelines

practice guidelines for management of the difficult airway (ASA Task Force on Management of the Difficult Airway) (2003;98:1269), 565 (erratum)

Preconditioning

desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vivo* (LI) [Toma et al.], 1372

intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160

isoflurane preconditioning induces neuroprotection that is inducible nitric oxide synthase-dependent in neonatal rats (LI) [Zhao et al.], 695

protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381

rapid ischemic preconditioning for spinal cord protection after transient aortic occlusion (CO) [Toumpoulis et al.], 261

remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918

a word on hypothermic preconditioning (CO) [Miyamoto et al.], 1042

Pregnancy. See also Obstetric patients

maternal insufflation during second trimester equivalent produces hypercapnia, acidosis, and prolonged hypoxia in fetal sheep (LI) [Uemura et al.], 1332

Preventive interventions

anesthesiologists and perioperative antibiotic prophylaxis (CO) [Tewari et al.], 259

preventing the development of complex regional pain syndrome after surgery (RA) [Reuben], 1215

severing the link between acute and chronic pain: anesthesiologist's role in preventive medicine (EV) [Gottschalk et al.], 1063

why anesthesiologists should administer preoperative antibiotics (CO) [Roth], 258

Probenecid

interaction with pharmacokinetics of morphine-6-glucuronide in humans (PRA) [Starke et al.], 1394

Propofol

brief regional ischemic-reperfusion enhances propofol-induced depression in left ventricular function of *in situ* rat hearts (LI) [Kuzumoto et al.], 879

choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9

coadministration of propofol and midazolam decreases Bispectral Index value as a result of synergic muscle relaxant action on the motor system (CO) [Fodale et al.], 799

comparative evaluation of Daxex-Ohmeda S/5 entropy module and Bispectral Index[®] monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283

comparative pharmacokinetics and pharmacodynamics of the new

- propofol prodrug GPI 15715 and propofol emulsion (CI) [Fechner et al.], 626
- direct cardiac effects of coronary site-directed thiopental and its enantiomers: comparison to propofol in conscious sheep (LI) [Mather et al.], 354
- do indomethacin and propofol cause cerebral ischemic damage? (CI) [Rasmussen et al.], 872
- estimation of plasma effect site equilibration rate constant in children using time to peak effect, 1269
- impact of Bispectral Index monitoring on stress response and propofol consumption in patients undergoing coronary artery bypass surgery (CI) [Bauer et al.], 1096
- induction speed is not a determinant of propofol pharmacodynamics (CI) [Doufas et al.], 1112
- influence of hemorrhagic shock followed by crystalloid resuscitation on propofol (LI) [Johnson et al.], 647
- influence on neuronal damage and apoptotic factors after incomplete cerebral ischemia and reperfusion in rats (LI) [Engelhardt et al.], 912
- information loss over time defines memory defect of (CI) [Veselis et al.], 831
- inhibitory effects of the anesthetics propofol and sevoflurane on spontaneous lymphatic vessel activity in rats (LI) [Hattori et al.], 687
- lack of tolerance with propofol in radiation therapy needs patients (CO) [Overdyk], 1044
- lactic acidosis during propofol-remifentanyl anesthesia in adult (CR) [Salengros et al.], 241
- metabolic acidosis associated with (EV) [Funston et al.], 6
- metabolic acidosis associated with propofol in absence of other causative factors (CR) [Burow et al.], 239
- propofol and sevoflurane depress spinal neurons *in vitro* via different molecular targets (LI) [Grasshoff et al.], 1167
- propofol attenuates peroxynitrite-mediated DNA damage and apoptosis in cultured astrocytes (LI) [Acquaviva et al.], 1363
- shock values (EV) [Shafer], 567
- Prostaglandins**
- contribution of interaction between NO and cyclooxygenases to production of prostaglandins in carrageenan-induced inflammation (PRA) [Toriyabe et al.], 983
- Protein kinase C**
- desflurane preconditioning induces time-dependent activation of protein kinase C epsilon and extracellular signal-regulated kinase 1 and 2 in rat heart *in vitro* (LI) [Toma et al.], 1372
- protein kinase C- ϵ primes the cardiac sarcolemmal adenosine triphosphate-sensitive potassium channel to modulation by isoflurane (LI) [Aizawa et al.], 381
- Proteins**
- anesthesia and multiorgan protein remodeling (CO) [Heerdts], 1040
- Pulmonary hypertension**
- treatment of rebound pulmonary hypertension: why not sildenafil? (CO) [Raja], 1480
- Q**
- Quality of care**
- acute care skills in anesthesia practice (CI) [Murray et al.], 1084
- quality of anesthesia practice (CO) [Fahey], 554
- risk assessment and control require analysis of both outcomes and process of care (EV) [Auroy et al.], 815
- what makes a "good" anesthesiologist? (EV) [Gaba], 1061
- R**
- Radiation therapy**
- lack of tolerance with propofol in radiation therapy needs patients (CO) [Overdyk], 1044
- Receptors and signal transduction**
- α_{2A} adrenoreceptors contribute to feedback inhibition of capsaicin-induced hyperalgesia (PRA) [Mansikka et al.], 185
- effects of anesthetic agents on focal adhesion kinase (pp¹²⁵FAK) tyrosine phosphorylation in rat hippocampal slices (LI) [Dahmani et al.], 344
- influence of GABA_A receptor γ_2 splice variants on receptor kinetics and isoflurane modulation (LI) [Benkowitz et al.], 924
- inhibitory effect of glucocorticoids on human-cloned 5-hydroxytryptamine_{2A} receptor expressed in *Xenopus* oocytes (LI) [Suzuki et al.], 660
- isoflurane alters amount of dopamine transporter expressed on plasma membrane in humans (CI) [Votaw et al.], 1128
- Regional anesthesia and anesthetics**
- comparison of infraclavicular nerve block *versus* general anesthesia for hand and wrist day-case surgeries (PRA) [Hadzic et al.], 127
- early but no long-term benefit of regional compared with general anesthesia for ambulatory hand surgery (PRA) [McCartney et al.], 461 (erratum, 1057)
- effect on hospital stay for outpatients, and definition of postanesthesia care unit bypass eligibility (EV) [Williams], 3
- efficiency of sciatic nerve block *via* posterior Labat approach using double-injection technique (PRA) [Taboada et al.], 138
- injuries associated with regional anesthesia in 1980s and 1990s (PRA) [Lee et al.], 143
- lumbar plexus in children (PRA) [Kirchmair et al.], 445
- time sequence of sensory changes after upper extremity block (PRA) [Paqueron et al.], 162
- Remifentanyl**
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- comparative evaluation of Datex-Ohmeda S/5 entropy module and Bispectral Index[®] monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283
- dexmedetomidine pharmacodynamics: part I: crossover comparison of analgesic effects of dexmedetomidine and remifentanyl (CI) [Cortinez et al.], 1077
- dexmedetomidine pharmacodynamics: part I: crossover comparison of respiratory effects of dexmedetomidine and remifentanyl (CI) [Hsu et al.], 1066
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 294
- lactic acidosis during propofol-remifentanyl anesthesia in adult (CR) [Salengros et al.], 241
- remifentanyl preconditioning protects against ischemic injury in intact rat heart (LI) [Zhang et al.], 918
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- Renal protection**
- differential protective effects of volatile anesthetics against renal ischemia-reperfusion injury *in vivo* (LI) [Lee et al.], 1313
- Residency training**
- acute care skills in anesthesia practice (CI) [Murray et al.], 1084
- GlideScope[®]-assisted fiberoptic intubation: new airway teaching method (CO) [Doyle], 1252
- introduction of anesthesia resident trainees to operating room does not lead to changes in anesthesia-controlled times for efficiency measures (EC) [Eappen et al.], 1210
- teaching residents pediatric fiberoptic intubation of trachea (CI) [Wheeler et al.], 842
- what makes a "good" anesthesiologist? (EV) [Gaba], 1061
- Respiratory depression**
- simultaneous measurement and integrated analysis of analgesia and respiration after intravenous morphine infusion (PRA) [Dahan et al.], 1201
- Retigabine**
- stimulation of human KCNQ2/Q3 channels in the presence of bupivacaine (LI) [Punke et al.], 430
- Review articles**
- excitation-contraction coupling in heart and negative inotropic action of volatile anesthetics (RA) [Hanley et al.], 999
- is low-dose haloperidol a useful antiemetic? (RA) [Büttner et al.], 1454
- making management decisions on day of surgery based on operating room efficiency and patient waiting times (RA) [Dexter et al.], 1444
- perioperative management of acute pain in opioid-dependent patient (RA) [Mitra et al.], 212
- pharmacologic treatment of muscle pain (RA) [Cohen et al.], 495

- preventing the development of complex regional pain syndrome after surgery (RA) [Reuben], 1215
- sickle cell disease and anesthesia (RA) [Firth et al.], 766
- Reviews of educational material**
- Bersten, Burlington (eds), *Ob's Intensive Care Manual, 5th edition* (EM) [Coursin], 268
- Eger, Eisenkraft, Weiskopf, *The Pharmacology of Inhaled Anesthetics* (EM) [Faust] [Egan], 563
- Finucane, Santora, *Principles of Airway Management, Third Edition* (EM) [Ovassapian], 1255
- Greaves, Dodds, Kumar, Mets (eds), *Clinical Teaching: A Guide to Teaching Practical Anaesthesia* (EM) [Barnes], 812
- Khan, *Cardiac Drug Therapy, 6th Edition* (EM) [Sharpe], 562
- Koenig, *Spirituality in Patient Care: Why, How, When, and What* (EM) [Plevak], 1055
- Konstadt, Sherman, Oka, *Clinical Transesophageal Echocardiography: A Problem-oriented Approach, 2nd edition* (EM) [Brechtman], 268
- Lai, *Barrell of Lunatics: Places Associated with the First Public Demonstration of Ether Anesthesia* (EM) [Smith], 1255
- Maier, Steinberg, *Hypothermia and Cerebral Ischemia: Mechanisms and Clinical Applications* (EM) [Petrozza], 1055
- O'Connor, T. Abram S, *Atlas of Pain Injection Techniques* (EM) [Rowlingson], 562
- Pardo, *The Manual of Anesthesia Practice, version 1.1.0* (EM) [Warner], 1490
- Shuman, Meador, *Heal Thyself: Spirituality, Medicine, and the Distortion of Christianity* (EM) [Plevak], 1055
- Waldman SD, *Atlas of Interventional Pain Management, 2nd Edition* (EM) [Huntton], 812
- Youngberg, Hatlie, *the Patient Safety Handbook* (EM) [Warner], 1489
- Rheumatoid arthritis**
- severe subluxation in the sniffing position in a rheumatoid patient with anterior atlantoaxial subluxation (CR) [Takenaka et al.], 1235
- Risk assessment**
- platelet gene polymorphisms and cardiac risk assessment in vascular surgical patients (CI) [Faraday et al.], 1291
- risk assessment and control require analysis of both outcomes and process of care (EV) [Auroy et al.], 815
- Ropivacaine**
- comparative effects of bupivacaine and ropivacaine on intracellular calcium transients and tension in ferret ventricular muscle (LI) [Mio et al.], 888
- effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K^+ channels in rat aorta (LR) [Dojo et al.], 251
- efficiency of sciatic nerve block *via* posterior Labat approach using double-injection technique (PRA) [Taboada et al.], 138
- factors affecting spread and duration of epidural anesthesia with ropivacaine (PRA) [Higuchi et al.], 451
- hesitant to follow the conclusion drawn (CO) [Friederich et al.], 552
- interaction of ropivacaine with cloned cardiac $Kv4.3/KChIP2.2$ complexes (LI) [Friederich et al.], 1347
- local anesthetic cardiac toxicity can present as late-onset hypotension, bradycardia, and asystole (CO) [Weinberg et al.], 553
- molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390
- packaging: potential source for drug error (CO) [Bastien et al.], 551
- popliteal sciatic perineural local anesthetic infusion (PRA) [Ilfield et al.], 970
- quality of anesthesia practice (CO) [Fahey], 554
- quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- ropivacaine-induced asystole (CO) [de Jong], 552
- foreign body in airway (CO) [Rengasamy et al.], 1486
- hazards and difficulties of wearing chemical warfare gear (CO) [Bloomfield], 1478
- a large trial is vital to prove perioperative β -blockade effectiveness and safety before widespread use (CO) [Leslie et al.], 803
- picking safe combinations (EV) [Shafer], 1260
- quality of anesthesia practice (CO) [Fahey], 554
- spontaneous ignition, explosion, and fire with sevoflurane and barium hydroxide lime (CR) [Wu et al.], 534
- why the Food and Drug Administration changed the warning label for hetastarch (CO) [Haynes et al.], 560
- Youngberg, Hatlie, *the Patient Safety Handbook* (EM) [Warner], 1489
- Sedation**
- dexmedetomidine pharmacodynamics: part I: crossover comparison of analgesic effects of dexmedetomidine and remifentanyl (CI) [Cortinez et al.], 1077
- dexmedetomidine pharmacodynamics: part I: crossover comparison of respiratory effects of dexmedetomidine and remifentanyl (CI) [Hsu et al.], 1066
- dexmedetomidine and opioid interactions: role of dexmedetomidine for ICU sedation (EV) [Maze et al.], 1059
- remifentanyl *versus* morphine analgesia and sedation for mechanically ventilated critically ill patients (CI) [Dahaba et al.], 640
- Seizures**
- effects on synaptic inhibition in hippocampus do not underlie amnesic and convulsive properties of 1,2-dichlorohexafluorocyclobutane (LI) [Perouansky et al.], 66
- Sepsis**
- effects of short-term fenoldopam infusion on gastric mucosal blood flow in septic shock (CI) [Morelli et al.], 576
- human septic myopathy: induction of cyclooxygenase, heme oxygenase and activation of ubiquitin proteolytic pathway (CI) [Rabuel et al.], 583
- local anesthetics reduce mortality and protect against renal and hepatic dysfunction in murine septic peritonitis (LI) [Gallos et al.], 902
- Sevoflurane**
- acute respiratory distress syndrome after an exothermic Baralyme®-sevoflurane reaction (CR) [Fatheree et al.], 531
- anesthetic requirement is increased in redheads (CI) [Liem et al.], 279
- cardioprotective properties of sevoflurane in patients undergoing coronary surgery with cardiopulmonary bypass are related to the modalities of its administration (CI) [De Hert et al.], 299
- choice of primary anesthetic regimen can influence ICU length of stay after coronary surgery with cardiopulmonary bypass (CI) [De Hert et al.], 9
- effects of isoflurane and sevoflurane on intracellular calcium and contractility in pressure-overload hypertrophy (LI) [Hannon et al.], 675
- evaluation of the Alaris Auditory Evoked Potential Index as indicator of anesthetic depth in preschool children during induction of anesthesia with sevoflurane and remifentanyl (CI) [Weber et al.], 294
- explosion within an anesthesia machine: Baralyme®, high fresh gas flows and sevoflurane concentration (CR) [Castro et al.], 537
- inhibitory effects of the anesthetics propofol and sevoflurane on spontaneous lymphatic vessel activity in rats (LI) [Hattori et al.], 687
- myocardial performance index with sevoflurane-pancuronium *vs.* fentanyl-midazolam-pancuronium in infants with a functional single ventricle (CI) [Ikemba et al.], 1298
- propofol and sevoflurane depress spinal neurons *in vitro* via different molecular targets (LI) [Grasshoff et al.], 1167
- relative amnesic potency of five inhalational anesthetics follows the Meyer-Overton rule (LI) [Alkire et al.], 417
- sevoflurane inhibits phorbol-myristate-acetate-induced activator protein-1 activation in human T lymphocytes *in vitro*: potential role of the p38-stress kinase pathway (LI) [Loop et al.], 710
- sleeping with uncertainty: anesthetics and desiccated absorbent (EV) [Wochlick], 276
- spectral entropy and Bispectral Index as measures of EEG effects of sevoflurane (CI) [Ellerkmann et al.], 1275

S

Safety issues

- explosion within an anesthesia machine: Baralyme®, high fresh gas flows and sevoflurane concentration (CR) [Castro et al.], 537

- spontaneous ignition, explosion, and fire with sevoflurane and barium hydroxide lime (CR) [Wu et al.], 534
- temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409
- Shock, anaphylactic**
is vasopressin the drug of choice? (CR) [Schummer et al.], 1025
- Shock, hemorrhagic**
high incidence of myocardial ischemia during postpartum hemorrhage of poor management of hemorrhagic shock? (CO) [Frölich et al.], 1037
influence of hemorrhagic shock followed by crystalloid resuscitation on propofol (LI) [Johnson et al.], 647
shock values (EV) [Shafer], 567
in swine: nitric oxide and potassium sensitive adenosine triphosphate channel activation (LI) [Musser et al.], 399
- Shock, septic**
effects of short-term fenoldopam infusion on gastric mucosal blood flow in septic shock (CI) [Morelli et al.], 576
- Shock, vasoplegic**
vasopressin for hemodynamic rescue in catecholamine-resistant vasoplegic shock after resection of massive pheochromocytoma (CR) [Augustides et al.], 1022
- Sickle cell disease**
anesthesia and (RA) [Firth et al.], 766
- Signal transduction. See Receptors and signal transduction**
- Sildenafil**
treatment of rebound pulmonary hypertension: why not sildenafil? (CO) [Raja], 1480
- Skeletal muscle**
coadministration of propofol and midazolam decreases Bispectral Index value as a result of synergic muscle relaxant action on the motor system (CO) [Fodale et al.], 799
epinephrine prevents muscle blood flow increases after perineural injection of tetrodotoxin (PRA) [Masuda et al.], 1428
human septic myopathy: induction of cyclooxygenase, heme oxygenase and activation of ubiquitin proteolytic pathway (CI) [Rabuel et al.], 583
inhibition of sarcoplasmic Ca^{2+} adenosine triphosphatase in porcine skeletal muscle samples with cyclopiazonic acid enables *in vitro* malignant hyperthermia discrimination (LR) [Gerbershagen et al.], 1475
 Mg^{2+} dependence of halothane-induced Ca^{2+} release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
pharmacologic treatment of muscle pain (RA) [Cohen et al.], 495
- Smooth muscle, airway**
anesthetics inhibit acetylcholine-promoted guanine nucleotide exchange of heterotrimeric G proteins of (LI) [Sakihara et al.], 120
effects of volatile anesthetics on store-operated Ca^{2+} influx in airway smooth muscle (LI) [Pabelick et al.], 373
- Smooth muscle, vascular**
inhibitory effects of isoflurane on protein tyrosine phosphorylation-modulated contraction of rat aortic smooth muscle (LI) [Yu et al.], 1325
- Sodium and sodium channels**
lidocaine increases intracellular sodium concentration through voltage-dependent sodium channels in *Lymnaea* neuron (LI) [Onizuka et al.], 110
- Special articles**
anesthetic agents and the immature brain: are these toxic or therapeutic? (SA) [Anand et al.], 527
weak intermolecular associations and anesthesia (SA) [Sandorfy], 1225
- Spectral entropy**
and Bispectral Index as measures of EEG effects of sevoflurane (CI) [Ellerkamann et al.], 1275
comparative evaluation of Datex-Ohmeda S/5 entropy module and Bispectral Index[®] monitor during propofol-remifentanyl anesthesia (CI) [Schmidt et al.], 1283
detection of gas embolism by Bispectral Index and entropy monitoring in two cases (CO) [Chazot et al.], 1053
as EEG measure of anesthetic drug effect (CI) [Vanluchene et al.], 34
- Spinal alcohol neurolysis**
for intractable thoracic postherpetic neuralgia after test bupivacaine spinal analgesia (CR) [Lauretti et al.], 244
- Spinal anesthesia and analgesia**
chronopharmacology of intrathecal sufentanil for labor analgesia (PRA) [Debon et al.], 978
effects of perioperative central neuraxial analgesia on outcome after coronary artery bypass surgery (PRA) [Liu et al.], 153
intrathecal gabapentin enhances the analgesic effects of subtherapeutic dose morphine in a rat experimental pancreatitis model (PRA) [Smiley et al.], 759
intrathecal morphine and inflammatory masses (CO) [McMillan], 255
intrathecal opioid infusions (CO) [Aldrete], 256
intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28
movement of the cauda equina during the lateral decubitus position with fully flexed leg (CO) [Takiguchi et al.], 1250
"oily" streak formation on aspiration of cerebrospinal fluid into local anesthetic solution: significance in combined spinal-epidural technique (CO) [Arya et al.], 1049
reactivation of phantom limb pain immediately after cervical spinal decompression (CR) [Iida et al.], 790
self-extraction of intrathecal pump opioid (CO) [Kittelberger et al.], 807
severe neurological complications after central neuraxial blockades in Sweden 1990-1999 (PRA) [Moen et al.], 950
spinal alcohol neurolysis for intractable thoracic postherpetic neuralgia after test bupivacaine spinal analgesia (CR) [Lauretti et al.], 244
spinal epidural hematoma after spinal anesthesia in patient treated with clopidogrel and enoxaparin (CR) [Litz et al.], 1467
- Spinal cord function and disease**
rapid ischemic preconditioning for spinal cord protection after transient aortic occlusion (CO) [Toumpoulis et al.], 261
transient profound neurologic deficit associated with thoracic epidural analgesia in an elderly patient (CR) [Jacob et al.], 1470
- Spinal surgery**
quality of postoperative pain using intraoperatively placed epidural catheter after major lumbar spinal surgery (PRA) [Gottschalk et al.], 175
- Spirituality**
Koenig, *Spirituality in Patient Care: Why, How, When, and What* (EM) [Plevak], 1055
Shuman, Meador, *Heal Thyself: Spirituality, Medicine, and the Distortion of Christianity* (EM) [Plevak], 1055
- Splanchnic perfusion**
effects of short-term fenoldopam infusion on gastric mucosal blood flow in septic shock (CI) [Morelli et al.], 576
- Subclavian venipuncture**
proper shoulder position for (CI) [Kitagawa et al.], 1306
- Substance use disorders**
dantrolene use in "Ecstasy"-mediated hyperthermia (CO) [Rusyniak et al.], 263
perioperative management of acute pain in opioid-dependent patient (RA) [Mitra et al.], 212
where is the fentanyl? (CO) [Thompson], 265
- Sufentanil**
are local anesthetics needed for local anesthesia? (EV) [Benhamou], 271
chronopharmacology of intrathecal sufentanil for labor analgesia (PRA) [Debon et al.], 978
effects of cardiopulmonary bypass on sufentanil pharmacokinetics in patients undergoing coronary artery bypass surgery (CI) [Hudson et al.], 862
epidural neostigmine combined with sufentanil provides balanced and selective analgesia in early labor (PRA) [Roclaens et al.], 439
- Surfactant reduction**
in embolism bubble adhesion and endothelial damage (LI) [Suzuki et al.], 97

T

T lymphocytes

- sevoflurane inhibits phorbol-myristate-acetate-induced activator protein-1 activation in human T lymphocytes *in vitro*: potential role of the p38-stress kinase pathway (LI) [Loop et al.], 710

Teeth

amateur dentistry and the anesthesiologist (CO) [Leyland], 1051

Temperature control and thermoregulation

changes in tissue pH and temperature after incision indicate acidosis may contribute to postoperative pain (PRA) [Woo et al.], 468
dantrolene use in "Ecstasy"-mediated hyperthermia (CO) [Rusyniak et al.], 263

Maier, Steinberg, *Hypothermia and Cerebral Ischemia: Mechanisms and Clinical Applications* (EM) [Petrozza], 1055
malignant hyperthermia in North America: genetic screening of type I ryanodine receptor gene (CI) [Sie et al.], 824

Mg²⁺ dependence of halothane-induced Ca²⁺ release from sarcoplasmic reticulum in skeletal muscle from humans susceptible to malignant hyperthermia (LI) [Duke et al.], 1339
temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409

topical humidified carbon dioxide to keep the open surgical wound warm (LI) [Persson et al.], 945
a word on hypothermic preconditioning (CO) [Miyamoto et al.], 1042

Thiopental

direct cardiac effects of coronary site-directed thiopental and its enantiomers: comparison to propofol in conscious sheep (LI) [Mather et al.], 354

information loss over time defines memory defect of propofol: comparison with thiopental and dexmedetomidine (CI) [Veselis et al.], 831

Thrombocytopenia

severe thrombocytopenia, type 2B von Willebrand disease and pregnancy (CR) [Hepner et al.], 1465

Tracheobronchial stent migration

emergency treatment (CR) [Amour et al.], 1230

Trauma patients

can Bispectral Index monitoring predict recovery of consciousness in patients with severe brain injury? (CI) [Fàbregas et al.], 43
incidence and significance of cardiac troponin I release in severe trauma patients (CI) [Edouard et al.], 1262

troponin: important in severe trauma and a first step in the biological marker revolution (EV) [Riou], 1259

Troponin

important in severe trauma and a first step in the biological marker revolution (EV) [Riou], 1259

incidence and significance of cardiac troponin I release in severe trauma patients (CI) [Edouard et al.], 1262

U**Ubiquitin proteolytic pathway**

human septic myopathy: induction of cyclooxygenase, heme oxygenase and activation of (CI) [Rabuel et al.], 583

Ultrasonography. See also Echocardiography

for guidance in caudal epidural needle placement (PRA) [Chen et al.], 181

lumbar plexus in children (PRA) [Kirchmair et al.], 445

retrograde air embolization during routine radial artery catheter flushing in adult cardiac surgical patients (CI) [Murphy et al.], 614
the "seesaw" sign: improved sonographic identification of the sciatic nerve (CO) [Schafhalter-Zoppoth et al.], 808

ultrasound-guided lumbar facet nerve block (PRA) [Greher et al.], 1195

Upper extremity surgery

comparison of infraclavicular nerve block *versus* general anesthesia for hand and wrist day-case surgeries (PRA) [Hadzic et al.], 127

time sequence of sensory changes after upper extremity block (PRA) [Paqueron et al.], 162

V**Vascular physiology and pharmacology**

do alpha agonists increase venous return? (CO) [Butterworth], 1038
effects of bupivacaine enantiomers and ropivacaine on vasorelaxation mediated by adenosine triphosphate-sensitive K⁺ channels in rat aorta (LR) [Dojo et al.], 251
hemorrhagic shock in swine: nitric oxide and potassium sensitive

adenosine triphosphate channel activation (LI) [Musser et al.], 399

inhibitory effect of fentanyl on acetylcholine-induced relaxation in rat aorta (LI) [Sohn et al.], 89

inhibitory effects of isoflurane on protein tyrosine phosphorylation-modulated contraction of rat aortic smooth muscle (LI) [Yu et al.], 1325

isoflurane and desflurane impair right ventricular-pulmonary arterial coupling in dogs (LI) [Kerbaul et al.], 1357

molecular mechanisms of inhibitory effects of bupivacaine, levobupivacaine, and ropivacaine on sarcolemmal adenosine triphosphate-sensitive potassium channels in cardiovascular system (LI) [Kawano et al.], 390

surfactant reduction in embolism bubble adhesion and endothelial damage (LI) [Suzuki et al.], 97

Vasopressin

anaphylactic shock: is vasopressin the drug of choice? (CR) [Schummer et al.], 1025

for hemodynamic rescue in catecholamine-resistant vasoplegic shock after resection of massive pheochromocytoma (CR) [Augoustides et al.], 1022

Vasopressors

intravenous vasopressors can affect rostral spread of spinal anesthesia in pregnancy (CI) [Cooper et al.], 28

Vecuronium

comparison of cisatracurium and vecuronium by infusion in neonates and small infants after congenital heart surgery (CI) [Reich et al.], 1122

Venipuncture

subclavian, proper shoulder position for (CI) [Kitagawa et al.], 1306

Volatile anesthetics. See also Inhalation anesthesia and anesthetics

differential protective effects against renal ischemia-reperfusion injury *in vivo* (LI) [Lee et al.], 1313

effects of volatile anesthetics on store-operated Ca²⁺ influx in airway smooth muscle (LI) [Pabelick et al.], 373

excitation-contraction coupling in heart and negative inotropic action of volatile anesthetics (RA) [Hanley et al.], 999

interaction of halogenated anesthetics with α - and β -adrenoceptor stimulations in diabetic rat myocardium (LI) [Amour et al.], 1145

intravenous emulsified halogenated anesthetics produce acute and delayed preconditioning against myocardial infarction in rabbits (LI) [Chiari et al.], 1160

mitochondrial complex I function affects halothane sensitivity in *Caenorhabditis elegans* (LI) [Kayser et al.], 365

reversal of minimum alveolar concentrations of volatile anesthetics by chromosomal substitution (LR) [Stekiel et al.], 796

temperature-independent inhibition of L-type calcium currents by halothane and sevoflurane in human atrial cardiomyocytes (LI) [Hüneke et al.], 409

Volume replacement

effects of different catecholamines on dynamics of volume expansion of crystalloid infusion (LI) [Vane et al.], 1136

why the Food and Drug Administration changed the warning label for hetastarch (CO) [Haynes et al.], 560

von Willebrand disease

severe thrombocytopenia, type 2B von Willebrand disease and pregnancy (CR) [Hepner et al.], 1465

W**Wound healing**

topical humidified carbon dioxide to keep the open surgical wound warm (LI) [Persson et al.], 945

X**Xenon**

neuroprotection by nitrous oxide and xenon and its relation to minimum alveolar concentration (CO) [Abraini et al.], 260

Z**Ziprasidone**

intravenous ziprasidone for treatment of delirium in the intensive care unit (CR) [Young et al.], 794

AUTHOR INDEX TO VOLUME 101

A

- Abbas, Sherif. *see* McCartney, Colin J. L.
 Abdi, Salahadin. *see* Cohen, Steven P.
 Abel, Martin D. *see* Oliver, William C.
 Abildstrom, Hanne, Christiansen, Michael, Siersma, Volkert D., Rasmussen, Lars S.: Apolipoprotein E Genotype and Cognitive Dysfunction after Noncardiac Surgery, 855
 Abouleish, Amr, Whitten, Charles W., Prough, Donald S.: In Reply, 1041
 Abouleish, Amr E., Prough, Donald S., Vahera, Rakesh B.: Influence of the Type of Anesthesia Provider on Costs of Labor Analgesia to the Texas Medicaid Program, 991
 Abraini, Jacques H., David, Hélène N., Nicole, Olivier, MacKenzie, Eric T., Buisson, Alain, Lemaire, Marc: Neuroprotection by Nitrous Oxide and Xenon and Its Relation to Minimum Alveolar Concentration, 260
 Abrams, Marc. *see* Augoustides, John G.
 Acquaviva, Rosaria, Campisi, Agata, Murabito, Paolo, Raciti, Giuseppe, Avola, Roberto, Mangiameli, Salvatore, Musumeci, Ilania, Barcellona, Maria Luisa, Vanella, Angelo, Li Volti, Giovanni: Propofol Attenuates Peroxynitrite-mediated DNA Damage and Apoptosis in Cultured Astrocytes: An Alternative Protective Mechanism, 1363
 Adachi, Yushi. *see* Higuchi, Hideyuki
 Adams, Hans Anton. *see* Bauer, Michael
 Adler, Elena. *see* Wu, Junzheng
 Aizawa, Kei, Turner, Lawrence A., Wehrauch, Dorothee, Bosnjak, Zeljko J., Kwok, Wai-Meng: Protein Kinase C δ Primes the Cardiac Sarcolemmal Adenosine Triphosphate-sensitive Potassium Channel to Modulation by Isoflurane, 381
 Aldrete, J. Antonio: Intrathecal Opioid Infusions, 256
 Aldrete, J. Antonio: No Granuloma and No Intracranial Hypotension, 1238
 Alexander, Bozana. *see* Voronov, Gennadiy
 Algaze, Antonio. *see* Ibinson, James W.
 Alkire, Michael T.: Functional Brain Imaging: Some Parameters for Success, 817
 Alkire, Michael T., Gorski, Lukasz A.: Relative Amnesic Potency of Five Inhalational Anesthetics Follows the Meyer-Overton Rule, 417
 Allaouchiche, Bernard. *see* Debon, Richard
 Allen, Jeffrey W. *see* Yaksh, Tony L.
 Al-Shaikh, Baha. *see* Van Zundert, André
 Alston, Theodore A. *see* Mann, Dharam P.; Parekh, Shyam D.
 Altermatt, Fernando R. *see* Muñoz, Hernán R.
 Álvarez, Julián. *see* Taboada, Manuel
 Alves, Arnould. *see* Rabuel, Christophe
 Alves, Thorsten Michael. *see* Ellerkmann, Richard Klaus
 Amaberti, René. *see* Auroy, Yves
 Amaki, Yoshiaki. *see* Mio, Yasushi
 Amar, David. *see* Dobres, Catherine
 Amour, Julien, David, Jean-Stéphane, Vivien, Benoît, Coriat, Pierre, Riou, Bruno: Interaction of Halogenated Anesthetics with α - and β -Adrenoceptor Stimulations in Diabetic Rat Myocardium, 1145
 Amour, Julien, Soummer, Alexis, Langeron, Olivier, Riou, Bruno: Emergency Treatment of Tracheobronchial Stent Migration, 1230
 Anagnostopoulos, Constantine E. *see* Toumpoulis, Ioannis K.
 Anand, Kanwaljeet J. S., Soriano, Sulpicio G.: Anesthetic Agents and the Immature Brain: Are These Toxic or Therapeutic, 527
 Anastakis, Dimitri J. *see* McCartney, Colin J. L.
 Andropoulos, Dean B. *see* Ikemba, Catherine M.
 Angaromo, Gustavo, Francalancia, Nicola, Shubjeet, Kaur, Brea, Francisco: A Novel Maneuver Used to Rule Out Intraarterial Placement of the Introducer Sheath in a Patient with an Ipsilateral Mature Forearm Hemodialysis Fistula, 1052
 Angle, Pamela, Kronberg, Jean, Shannon, Patrick, Faure, Peter: In Reply, 556
 Angst, Martin S. *see* Maze, Mervyn
 Angst, Martin S., Ramaswamy, Bhamini, Davies, M., Frances, Maze, Mervyn: Comparative Analgesic and Mental Effects of Increasing Plasma Concentrations of Dexmedetomidine and Alfentanil in Humans, 744
 Antkowiak, Bernd. *see* Grasshoff, Christian
 Aoyama, Kazuyoshi. *see* Takenaka, Ichoro
 Arenbeck, Henry. *see* Schneider, Gerhard
 Arliss, Jeffrey. *see* Hadzic, Admir
 Armstead, Stephen C. *see* Suzuki, Akira
 Arndt, George A. *see* Matioc, Adrian A.
 Arya, Virendra Kumar, Malhotra, Surender Kumar: "Oily" Streak Formation on Aspiration of Cerebrospinal Fluid into Local Anesthetic Solution: Its Significance in the Combined Spinal-Epidural Technique, 1049
 Atanassoff, Peter G. *see* Taboada, Manuel
 Augoustides, John G., Abrams, Marc, Berkowitz, Darryl, Fraker, Douglas: Vasopressin for Hemodynamic Rescue in Catecholamine-resistant Vasoplegic Shock after Resection of Massive Pheochromocytoma, 1022
 Augoustides, John G.: In Reply, 1481
 Auroy, Yves, Benhamou, Dan, Amaberti, René: Risk Assessment and Control Require Analysis of Both Outcomes and Process of Care, 815
 Avola, Roberto. *see* Acquaviva, Rosaria
 Avram, Michael J. *see* Murphy, Glenn S.
 Ay, Binnaz. *see* Pabelick, Christina M.
- ## B
- Bach, Flemming W. *see* Gottrup, Hanne
 Backman, Steven B. *see* Deschamps, Alain
 Bailey, Philip D. *see* Bastien, John L.
 Bairaman, Mosses. *see* Shibutani, Kinichi
 Baker, Max T.: Chloroprocaine or Sulfite Toxicity?, 1247
 Bakhshandeh, Maryam. *see* Doufas, Anthony G.
 Ball, John. *see* Wu, Junzheng
 Bamlet, William R. *see* Oliver, William C.
 Banks, Matthew I. *see* Benkowitz, Claudia
 Banks, Matthew L. *see* Rusyniak, Daniel E.
 Bansinath, Mylarrao. *see* Grant, Gilbert J.
 Barcellona, Maria Luisa. *see* Acquaviva, Rosaria
 Barenholz, Yechezkel. *see* Grant, Gilbert J.
 Barvais, Luc. *see* Salengros, Jean-Coréentin
 Basler, Michael, Daniel, Malcolm: Solid (Concrete) Evidence Needs Both Cement and Sand, 802
 Bastien, John L., Bailey, Philip D.: Ropivacaine Packaging: A Potential Source for Drug Error, 551
 Bauer, Michael, Wilhelm, Wolfram, Kraemer, Thomas, Kreuer, Sascha, Brandt, Andreas, Adams, Hans Anton, Hoff, Gudrun, Larsen, Reinhard: Impact of Bispectral Index Monitoring on Stress Response and Propofol Consumption in Patients Undergoing Coronary Artery Bypass Surgery, 1096
 Bax, Jeroen J. *see* Kertai, Miklos D.
 Baze, Wallace B. *see* Gradert, Tamara Lee
 Beck, Daniel R. *see* Kroin, Jeffrey S.
 Bein, Thomas. *see* Weber, Frank
 Ben-Abraham, Ron. *see* Flaishon, Ron
 Ben-David, Bruce. *see* Gaitini, Luis A.
 Benhamou, Dan. *see* Auroy, Yves; Simon, Lionel
 Benhamou, Dan. *see* Edouard, Alain R.
 Benhamou, Dan: Are Local Anesthetics Needed for Local Anesthesia?, 271
 Benkowitz, Claudia, Banks, Matthew I., Pearce, Robert A.: Influence of GABA α Receptor γ_2 Splice Variants on Receptor Kinetics and Isoflurane Modulation, 924
 Bentley, Timothy B. *see* Musser, Jeffrey B.
 Berde, Charles B. *see* Masuda, Takako
 Berger, Jürgen. *see* Schuster, Martin
 Berkowitz, Darryl. *see* Augoustides, John G.
 Bernards, Christopher M.: Does the Hole in the Dura Mater Really Matter: What's the Evidence?, 556
 Bezold, Louis I. *see* Ikemba, Catherine M.
 Bhattacharyya, Neil. *see* Eappen, Sunil
 Bijl, Hans. *see* Dahan, Albert
 Bischoff, Petra. *see* Schmidt, Gunter N.
 Bjorksten, Andrew R. *see* Doufas, Anthony G.
 Blanck, Thomas J. J. *see* Corrales, Alexandra
 Block, Brian M. *see* Liu, Spencer S.
 Bloomfield, Eric L.: Prolonged Wear of Antichemical Protective Gear: The Hazards and Difficulties of Wearing Chemical Warfare Gear, 1478
 Boehlen, Thomas. *see* Locher, Stephan
 Boisvert, Denis M. *see* Wallace, Arthur W.
 Boker, Abdulaziz, Doak, Greg J.: In Reply, 1047
 Bollen, Andrew W. *see* Drasner, Kenneth
 Bollens, Renaud. *see* Salengros, Jean-Coréentin
 Bolotin, Elijah M. *see* Grant, Gilbert J.
 Bong, Choon Looi, Macachor, Joselo D., Hwang, Nian Chih: Insertion of the Nasogastric Tube Made Easy, 266
 Borowiec, James C. *see* Jacob, Adam K.
 Boselli, Emanuel. *see* Debon, Richard
 Boselli, Emmanuel, Chassard, Dominique: In Reply, 1482
 Bosnjak, Zeljko J. *see* Aizawa, Kei; Stekiet, Thomas A.
 Bouillon, Thomas. *see* Locher, Stephan
 Boulet, John R. *see* Murray, David J.
 Brack, Alexander, Labuz, Dominika, Schlitz, Anu, Rittner, Heike L., Machelka, Halina,

- Schäfer, Michael, Reszka, Regina, Stein, Christoph: Tissue Monocytes/Macrophages in Inflammation: Hyperalgesia versus Opioid-mediated Peripheral Antinociception, 204
- Branche, Patricia. *see* Closon, Mathieu
- Brandom, Barbara W. *see* Sei, Yoshitatsu
- Brandt, Andreas. *see* Baucr, Michael
- Brauer, Kirk P. *see* Svensén, Christer H.
- Bray, Paul F. *see* Faraday, Nauder
- Brea, Francisco. *see* Angaramo, Gustavo
- Brealey, David. *see* Rabuel, Christophe
- Brennan, Timothy J. *see* Woo, Young Cheol
- Breynaert, Charles. *see* Closon, Mathieu
- Brimacombe, Joseph: A Proposed Classification System for Extraglottic Airway Devices, 559
- Brimacombe, Joseph, Keller, Christian: A Modified Rapid Sequence Induction Using the ProSeal[®] Laryngeal Mask Airway and an Eschmann Tracheal Tube Introducer or Gum Elastic Bougie, 1251
- Brimacombe, Joseph, Keller, Christian: In Reply, 1242
- Brimacombe, Joseph R. *see* Kihara, Shinichi; Kihara, Shinichi
- Brimiouille, Serge. *see* Kerbaul, François
- Brose, Stefan. *see* Hüneke, Rocco
- Brown, John. *see* Gottrup, Hanne
- Brown, Michael J. *see* Husser, Casey S.; Jacob, Adam K.
- Bruhn, Jörgen. *see* Kreuer, Sascha
- Bruhn, Jörgen. *see* Ellerkmann, Richard Klaus
- Brull, Richard. *see* McCartney, Colin J. L.
- Buchheit, Thomas E. *see* Kittelberger, Keith P.
- Bucklin, Brenda A.: Society for Obstetric Anesthesia and Perinatology, 1257
- Buechler, Nancy L. *see* Martin, Thomas J.
- Buhre, Wolfgang. *see* Hüneke, Rocco
- Buisson, Alain. *see* Abraini, Jacques
- Bukhalo, Yuri, Mullin, Vildan: Presentation and Treatment of Complex Regional Pain Syndrome Type 1 in a 3 Year Old, 542
- Burm, Anton G. L. *see* Vuyk, Jaap
- Burmeister, Marc-Alexander. *see* Gottschalk, André
- Burow, Bethanie K., Johnson, Michael E., Packer, Douglas L.: Metabolic Acidosis Associated with Propofol in the Absence of Other Causative Factors, 239
- Butterworth, John: Do Alpha Agonists Increase Venous Return?, 1038
- Büttner, Michael, Walder, Bernhard, von Elm, Erik, Tramèr, Martin R.: Is Low-dose Haloperidol a Useful Antiemetic? A Meta-analysis of Published and Unpublished Randomized Trials, 1454
- Buvanendran, Asokumar. *see* Kroin, Jeffrey S.
- Byas-Smith, Michael G. *see* Votaw, John R.

C

- Cairns, Brian E. *see* Masuda, Takako
- Campbell, Kurt A. *see* Uemura, Kenichiro
- Campisi, Agata. *see* Acquaviva, Rosaria
- Cannell, Mark B. *see* Hanly, Peter J.
- Caplan, Robert A. *see* Lee, Lorri A.
- Carnini, Anna. *see* Eckenhooff, Roderic G.
- Carpentier, Brad W. *see* McAllister, Russell K.

- Carrera, Anna. *see* Sala-Blanch, Xavier
- Carrero, Enrique J. *see* Fábregas, Neus
- Cascio, Michael. *see* Xing, Yilei
- Castro, Barbara A., Freedman, L. Allen, Craig, William L., Lynch, Carl, III: Explosion within an Anesthesia Machine: Baralyme[®], High Fresh Gas Flows and Sevoflurane Concentration, 537
- Chakravorti, Sephali. *see* Reich, David L.
- Chamblee, Brian. *see* Husser, Casey S.
- Chan, Vincent W. S. *see* McCartney, Colin J. L.
- Chang, Dennis H.-T. *see* Mather, Laurence E.
- Chassard, Dominique. *see* Debon, Richard
- Chazot, Thierry, Liu, Ngai, Trémelot, Laurent, Joukovsky, Pascal, Fischler, Marc: Detection of Gas Embolism by Bispectral Index and Entropy Monitoring in Two Cases, 1053
- Chen, Carl P. C., Tang, Simon F. P., Hsu, Tsz-Ching, Tsai, Wen-Chung, Liu, Hung-Pin, Chen, Max J. L., Date, Elaine, Lew, Henry L.: Ultrasound Guidance in Caudal Epidural Needle Placement, 181
- Chen, Max J. L. *see* Chen, Carl P. C.
- Cheney, Frederick W. *see* Lee, Lorri A.
- Chiari, Pascal C., Pagel, Paul S., Tanaka, Katsuya, Krolikowski, John G., Ludwig, Lynda M., Trillo, Raul A., Jr., Puri, Navneet, Kersten, Judy R., Warltier, David C.: Intravenous Emulsified Halogenated Anesthetics Produce Acute and Delayed Preconditioning against Myocardial Infarction in Rabbits, 1160
- Chizh, Boris A. *see* Gottrup, Hanne
- Christiansen, Michael. *see* Abildstrom, Hanne
- Chung, In-Hyuk. *see* Oh, Chang-Seok
- Chung, Young-Kyun. *see* Sohn, Ju-Tae
- Cladis, Franklin, Litman, Ronald: In Reply, 1036
- Clark, David L. *see* Ibinson, James W.
- Claudio, Richard E. *see* Hadzic, Admir
- Closon, Mathieu, Vivier, Emmanuel, Breynaert, Charles, Duperrét, Serge, Branche, Patricia, Coulon, Agnès, De La Roche, Eric, Delafosse, Bertrand: Air Embolism During an Aircraft Flight in a Passenger with a Pulmonary Cyst: A Favorable Outcome with Hyperbaric Therapy, 539
- Cluff, Mark L. *see* Johnson, Ken B.
- Cody, Mark J. *see* Hannon, James D.
- Cohen, Lorenzo. *see* Katz, Joel
- Cohen, Steven P., Mullings, Rohan, Abdi, Salahadin: The Pharmacologic Treatment of Muscle Pain, 495
- Cold, Georg E. *see* Rasmussen, Mads
- Cole, Daniel J. *see* Inoue, Sakoti
- Collins, Adam B. *see* Schaffhalter-Zoppoth, Ingeborg
- Columb, Malachy O. *see* Polley, Linda S.
- Coluzzi, Flaminia. *see* Morelli, Andrea
- Combes, Xavier, Dhonneur, Gilles: In Reply, 1485
- Constantin, Jean-Michel. *see* Rouby, Jean-Jacques
- Conti, Giorgio. *see* Morelli, Andrea
- Contney, Stephen J. *see* Stekiel, Thomas A.
- Cook, D. Ryan. *see* Reich, David L.
- Cooper, David W., Jeyaraj, Leo, Hynd Ryan, Thompson, Rebekah, Meek, Tim, Ryall, David M., Kokri, Manmohan S.: Evidence That Intravenous Vasopressors Can Affect

- Rostral Spread of Spinal Anesthesia in Pregnancy, 28
- Copeland Susan E. *see* Mather, Laurence E.
- Coriat, Pierre. *see* Amour, Julien; Paqueron, Xavier
- Corrales, Alexandra, Xu, Fang, Garavito-Aguilar, Zayra V., Blanck, Thomas J. J., Recio-Pinto, Esperanza: Isoflurane Reduces the Carbachol-evoked Ca^{2+} Influx in Neuronal Cells, 895
- Cortés, Joaquín. *see* Taboada, Manuel
- Cortinez, Luis I. *see* Hsu, Yung-Wei
- Cortinez, Luis I. *see* Muñoz, Hernán R.
- Cortinez, Luis I., Hsu, Yung-Wei, Sun-Ping, Sam T., Young, Christopher, Keifer, John C., MacLeod, David, Robertson, Kerri M., Wright, David R., Moretti, Eugene W., Somma, Jacques: Dexmedetomidine Pharmacodynamics: Part II: Crossover Comparison of the Analgesic Effect of Dexmedetomidine and Remifentanyl in Healthy Volunteers, 1077
- Cosson, Claudine. *see* Edouard, Alain R.
- Coté, Charles J. *see* Wheeler, Melissa
- Coulon, Agnès. *see* Closon, Mathieu
- Cox, Thomas. *see* Murray, David J.
- Craig, William L. *see* Castro, Barbara A.
- Crawford, Mark W. *see* Lerman, Jerrold
- Crews, James C. *see* Martin, Thomas J.
- Cromheecke, Stefanie. *see* De Hert, Stefan G.
- Cuenca, Phil B. *see* Sei, Yoshitatsu
- Curatolo, Michele. *see* Svetlic, Gorazd

D

- Dahaba, Ashraf A., Grabner, Tanja, Rehak, Peter H., List, Werner F., Metzler, Helfried: Remifentanyl versus Morphine Analgesia and Sedation for Mechanically Ventilated Critically Ill Patients: A Randomized Double Blind Study, 640
- Dahan, Albert. *see* Vuyk, Jaap
- Dahan, Albert, Romberg, Raymonda, Teppema, Luc, Sartori, Elise, Bijl, Hans, Olofsen, Erik: Simultaneous Measurement and Integrated Analysis of Analgesia and Respiration after an Intravenous Morphine Infusion, 1201
- Dahlgren, Nils. *see* Moen, Vibeke
- Damy, Thibaut. *see* Rabuel, Christophe
- Daniel, Danette. *see* Flood, Pamela
- Daniel, Malcolm. *see* Basler, Michael
- Danielson, David R. *see* Kies, Susan J.
- Date, Elaine. *see* Chen, Carl P. C.
- David, Hélène N. *see* Abraini, Jacques
- David, Jean-Stéphane. *see* Amour, Julien
- Davidson, Elyad M. *see* Grant, Gilbert J.
- Davies, M. Frances. *see* Angst, Martin S.
- Davis, Daniel P. *see* Inoue, Sakoti
- Davis, Edward J. *see* Sei, Yoshitatsu
- de A Girardi, Cassio Roberto. *see* Rouby, Jean-Jacques
- De Blier, Ivo G. *see* De Hert, Stefan G.
- Debon, Richard, Boselli, Emmanuel, Guyot, Romain, Allaouchiche, Bernard, Lemmer, Björn, Chassard, Dominique, 978
- De Gaetano, Andrea. *see* Morelli, Andrea
- De Hert, Stefan G., Van der Linden, Philippe J., Cromheecke, Stefanie, Mecus, Roel, Nelis, Anne, Van Reeth, Veronique, ten Broecke, Pieter W., De Blier, Ivo G., Stockman, Bernard A., Rodrigus, Inez E.

- Cardioprotective Properties of Sevoflurane in Patients Undergoing Coronary Surgery with Cardiopulmonary Bypass Are Related to the Modalities of Its Administration, 299
- De Hert, Stefang, Van der Linden, Philippe J., Cromheecke, Stefanie, Meeus, Roel, ten Broecke, Pieter W., De Blier, Ivo G., Stockman, Bernard A., Rodrigus, Inez E.: Choice of Primary Anesthetic Regimen Can Influence Intensive Care Unit Length of Stay after Coronary Surgery with Cardiopulmonary Bypass, 9
- de Jong, Rudolph H.: Ropivacaine-induced Asystole: "Never Again" rather than "Here We Go Again," 552
- Delafosse, Bertrand. *see* Closon, Mathieu
- de la Fuente, Sebastian G. *see* Uemura, Ken-ichiro
- De La Roche, Eric. *see* Closon, Mathieu
- Dennison, David G. *see* Kies, Susan J.
- Der Ananian, John. *see* Mann, Dharam P.
- Deschamps, Alain, Kaufman, Ian, Backman, Steven B., Plourde, Gilles: Autonomic Nervous System Response to Epidural Analgesia in Laboring Patients by Wavelet Transform of Heart Rate and Blood Pressure Variability, 21
- Desmonts, Jean-Marie. *see* Dahmani, Souhayl
- Deutschman, Clifford S. *see* Kharasch, Evan D.
- Devereaux, Philip J. *see* Leslie, Kate
- Dexter, Franklin, Epstein, Richard H., Traub, Rodney D., Xiao, Yan: Making Management Decisions on the Day of Surgery Based on Operating Room Efficiency and Patient Waiting Times, 1444
- Dhamani, Souhayl, Tesnière, Antoine, Rouelle, Danielle, Toutant, Madeleine, Desmonts, Jean-Marie, Mantz, Jean: Effects of Anesthetic Agents on Focal Adhesion Kinase (pp12^{FAK}) Tyrosine Phosphorylation in Rat Hippocampal Slices, 344
- Dhonneur, Gilles. *see* Combes, Xavier
- Dietrich, Cynthia L., Smith, Charles E.: In Reply, 1239
- Doak, Greg J. *see* Boker, Abdulaziz
- Dobres, Catherine, Fan, Jessie, Schattner, Mark, Amar, David: Transdiaphragmatic Hernia and Hypoxemia during Colonoscopy, 811
- Dojo, Mayuko, Kinoshita, Hiroyuki, Nakahata, Katsutoshi, Kimoto, Yoshiki, Hatanoto, Yoshio: Effects of Bupivacaine Enantiomers and Ropivacaine on Vasorelaxation Mediated by Adenosine Triphosphate-sensitive K⁺ Channels in the Rat Aorta, 251
- Domino, Karen B. *see* Lee, Lorri A.
- Donoghue, Simon. *see* Pandit, Jaideep J.
- Dorman, Todd. *see* Faraday, Nauder
- Doufas, Anthony G. *see* Liem, Edwin B.
- Doufas, Anthony G., Bakhshandeh, Maryam, Björkstén, Andrew R., Shafer, Steven L., Sessler, Daniel I.: Induction Speed Is Not a Determinant of Propofol Pharmacodynamics, 1112
- Doviakue, David. *see* Loop, Torsten
- Doyle, D. John: GlideScope®-assisted Fiberoptic Intubation: A New Airway Teaching Method, 1252
- Drasner, Kenneth, Taniguchi, Masahiko, Bollen, Andrew W.: In Reply, 1247
- Dreyfuss, Didier, Roubey, Jean-Jacques: Mechanical Ventilation-induced Lung Release of Cytokines: A Key for the Future or Pandora's Box?, 1
- Drummond, John C. *see* Inoue, Sakoti
- Dsida, Richard M. *see* Wheeler, Melissa
- Duke, Adrian M., Hopkins, Philip M., Halsal, Jane P., Steele, Derek S.: Mg²⁺ Dependence of Halothane-induced Ca²⁺ Release from the Sarcoplasmic Reticulum in Skeletal Muscle from Humans Susceptible to Malignant Hyperthermia, 1339
- Duke, Colin C. *see* Mather, Laurence E.
- Dunlap, Joyce A. *see* Marcucci, Catherine
- Dunning, Patricia S. *see* Masuda, Takako
- Duperret, Serge. *see* Closon, Mathieu
- Dybek, Eva. *see* Muth-Selbach, Uta
- Eappen, Sunil, Flanagan, Hugh, Bhattacharyya, Neil: Introduction of Anesthesia Resident Trainees to the Operating Room Does Not Lead to Changes in Anesthesia-controlled Times for Efficiency Measures, 1210
- Eberspächer, Eva. *see* Engelhard, Kristin
- Ebert, Thomas, Maze, Mervyn: Dexmedetomidine: Another Arrow for the Clinician's Quiver, 568
- Eckenhoff, Maryellen F. *see* Eckenhoff, Roderic G.
- Eckenhoff, Roderic G., Johansson, Jonas S., Wei, Huafeng, Carnini, Anna, Kang, Baobin, Wei, Wenlin, Pidikiti, Ravindernath, Keller, Jason M., Eckenhoff, Maryellen F.: Inhaled Anesthetic Enhancement of Amyloid- β Oligomerization and Cytotoxicity, 703
- Eckmann, David M. *see* Suzuki, Akira
- Edouard, Alain. *see* Simon, Lionel
- Edouard, Alain R., Felten, Marie-Louise, Hebert, Jean-Louis, Cosson, Claudine, Martin, Laurent, Benhamou, Dan: Incidence and Significance of Cardiac Troponin I Release in Severe Trauma Patients, 1262
- Egan, Talmage D. *see* Johnson, Ken B.
- Eger, Edmond I., II. *see* Xing, Yilei
- Eichenberger, Urs. *see* Svetcic, Gorazd
- Eidem, Benjamin W. *see* Ikemba, Catherine M.
- Eisenach, James C. *see* Martin, Thomas J.; Ririe, Douglas G.
- Ellerkmann, Richard Klaus, Liermann, Vidal-Markus, Alves, Thorsten Michael, Weningmann, Ingobert, Kreuer, Sascha, Wilhelm, Wolfram, Roepcke, Heiko, Hoef, Andreas, Bruhn, Jörgen: Spectral Entropy and Bispectral Index as Measures of the Electroencephalographic Effects of Sevoflurane, 1275
- Elmqvist, Håkan. *see* Persson, Mikael
- El-Orbany, Mohammad I., Salem, M. Ramez, Joseph, Ninos J.: The Eschmann Tracheal Tube Introducer Is Not Gum, Elastic, or a Bougie, 1240
- Emala, Charles W. *see* Gallos, George; Lee, H. Thomas
- Engbers, Frank H. M. *see* Vuyk, Jaap
- Engelhard, Kristin, Werner, Christian, Eberspächer, Eva, Pape, Monika, Stegemann, Uta, Kellermann, Kristine, Hollweck, Regina, Hutzler, Peter, Kochs, Eberhard: Influence of Propofol on Neuronal Damage and Apoptotic Factors after Incomplete Cerebral Ischemia and Reperfusion in Rats: A Long-term Observation, 912
- Engelman, Edgar. *see* Salengros, Jean-Coréntin
- Enna, Birgit. *see* Greher, Manfred; Kirchmair, Lukas
- Enneking, F. Kayser. *see* Ilfeld, Brian M.
- Epstein, Richard H. *see* Dexter, Franklin
- Ereth, Mark H. *see* Oliver, William C.
- Escobar, Miguel. *see* Roberts, Harold R.
- Eubanks, W. Steve. *see* Uemura, Kenichiro
- Ewalenko, Patricia. *see* Kerbaul, François
- Eyrolle, Luc J. *see* Mazoit, Jean-X.
- Ezri, Tiberiu. *see* Warters, R. David
- Fabregas, Neus, Gambús, Pedro L., Valero, Ricard, Carrero, Enrique J., Salvador, Lydia, Zavala, Elysa, Ferrer, Enrique: Can Bispectral Index Monitoring Predict Recovery of Consciousness in Patients with Severe Brain Injury?, 43
- Fahey, Mark R.: Quality of Anesthesia Practice, 554
- Fan, Jessie. *see* Dobres, Catherine
- Fanning, Gary L.: Is It in the Episcleral Space? for in the Medial Canthal Extraocular Space?, 1045
- Faraday, Nauder, Martinez, Elizabeth A., Scharpf, Robert B., Kasch-Semenza, Laura, Dorman, Todd, Pronovost, Peter J., Perler, Bruce, Gerstenblith, Gary, Bray, Paul F., Fleisher, Lee A.: Platelet Gene Polymorphisms and Cardiac Risk Assessment in Vascular Surgical Patients, 1291
- Fassl, Jens. *see* Hüneke, Rocco
- Fatherree, Randy S., Leighton, Barbara L.: Acute Respiratory Distress Syndrome after an Exothermic Baralyme®-Sevoflurane Reaction, 531
- Faure, Peter. *see* Angle, Pamela
- Fechner, Jörg, Ihmsen, Harald, Hatterscheid, Dirk, Jelezacov, Christian, Schiessl, Christine, Vornov, James J., Schwilden, Helmut, Schüttler, Jürgen, 626
- Felten, Marie-Louise. *see* Edouard, Alain R.
- Ferreira, Roberto Manara V. *see* Videira, Rogério L. R.
- Ferrer, Enric. *see* Fabregas, Neus
- Feshchenko, Vladimir A. *see* Veselis, Robert A.
- Fesler, Pierre. *see* Kerbaul, François
- Fiege, Marko. *see* Gerbershagen, Mark Ulrich
- Fiege, Marko, Wappler, Frank, Weisshorn, Ralf, Gerbershagen, Mark U., Menge, Melanie, Schulte am Esch, Jochen: In Reply, 264
- Firth, Paul G., Head, C. Alvin: Sickle Cell Disease and Anesthesia, 766
- Fischler, Marc. *see* Chazot, Thierry
- Fitzgerald, Robert D. *see* Oczenski, Wolfgang
- Flaishon, Ron, Sotman, Alexander, Ben-Abram, Ron, Rudick, Valery, Varssano, David, Weinbroum, Avi A.: In Reply, 1478
- Flanagan, Hugh. *see* Eappen, Sunil
- Fleisher, Lee A. *see* Faraday, Nauder

- Flood, Pamela, Daniel, Danette: Intranasal Nicotine for Postoperative Pain Treatment, 1417
- Fodale, Vincenzo, Praticò, Caterina, Santamaria, Letterio B.: Coadministration of Propofol and Midazolam Decreases Bispectral Index Value as a Result of Synergic Muscle Relaxant Action on the Motor System, 799
- Fodale, Vincenzo, Tescione, Marco, Praticò, Caterina: Cholinesterase Inhibitors. Neuromuscular Blocking Drugs and Perioperative Memory Enhancement, 1483
- Follett, Kenneth A.: In Reply, 256
- Fonck, Kristine: see Van Zundert, André
- Frade, Luis-Cleber P.: see Lauretti, Gabriela R.
- Fraker, Douglas: see Augoustides, John G.
- Francalancia, Nicola: see Angarano, Gustavo
- Franks, Nicholas P.: see Homi, H. Mayumi
- Franks, Nicholas P., Lieb, William R.: Seeing the Light: Protein Theories of General Anesthesia, 235
- Freedman, L. Allen: see Castro, Barbara A.
- Freitag, Marc: see Gottschalk, André
- Friederich, Patrick: see Punke, Mark A.
- Friederich, Patrick, Schulte am Esch, Jochen: Hesitant to Follow the Conclusion Drawn, 552
- Friederich, Patrick, Solth, Anna: Interaction of Ropivacaine with Cloned Cardiac Kv4.3/KChIP2.2 Complexes, 1347
- Frölich, Michael A.: High Incidence of Myocardial Ischemia during Postpartum Hemorrhage or Poor Management of Hemorrhagic Shock?, 1037
- Fu, Yulei: see Lee, H. Thomas
- Fuchs, Juergen: see Schummer, Wolfram
- Fujimoto, Keisaku: see Koizumi, Tomonobu
- Fujino, Yuji: see Maeda, Yoshiko
- Fukuda, Norio: see Mio, Yasushi
- Funston, Joe S., Prough, Donald S.: Two Reports of Propofol Anesthesia Associated with Metabolic Acidosis in Adults, 6
- Furuya, Hitoshi: see Kakimoto, Meiko; Kawaraguchi, Yoshitaka; Kuzumoto, Naoya
- Fütterer, Carsten D., Maurer, Martin H., Kuschinsky, Wolfgang, Waschke, Klaus F.: In Reply, 1040
- G**
- Gaba, David M.: What Makes a "Good" Anesthesiologist?, 1061
- Gaitini, Luis A., Vaida, Sonia J.: Somri, Mostafa, Yanovski, Boris, Ben-David, Bruce, Hagberg, Carin A.: A Randomized Controlled Trial Comparing the ProSeal® Laryngeal Mask Airway with the Laryngeal Tube Suction in Mechanically Ventilated Patients, 316
- Gallandez, Daniel: see Wallace, Arthur W.
- Gallagher, Gabrielle: see Mather, Laurence E.
- Gallinat, Michael: see Schneider, Gerhard
- Gallos, George, Jones, Dean R., Nasr, Samih H., Emala, Charles W., Lee, H. Thomas: Local Anesthetics Reduce Mortality and Protect Against Renal and Hepatic Dysfunction in Murine Septic Peritonitis, 902
- Galun, Eithan: see Rivo, Julia
- Gambús, Pedro L.: see Fábregas, Neus
- Garavito-Aguilar, Zayra V.: see Corrales, Alexandra
- García-Díez, Anna I.: see Sala-Blanch, Xavier
- Garg, Shuchita: see Tewari, Anurag
- Gassner, Ingmar: see Kirchmair, Lukas
- Gebhard, Ralf: see Warters, R. David
- Geiger, Klaus K.: see Loop, Torsten
- Geisslinger, Gerd: see Skarke, Carsten
- Gelman, Simon, Mushlin, Phillip S.: In Reply, 1039
- Gentili, Marc E.: see Paqueron, Xavier
- Gentilini, Andrea: see Svetcic, Gorazd
- Gerbershagen, Mark U.: see Fiege, Marko
- Gerbershagen, Mark Ulrich, Wappler, Frank, Fiege, Marko, Weighorn, Ralf, Kolodzie, Kerstin, Schulte am Esch, Jochen: Inhibition of Sarcoplasmic Ca^{2+} Adenosine Triphosphatase in Porcine Skeletal Muscle Samples with Cyclopiazonic Acid Enables *In Vitro* Malignant Hyperthermia Discrimination, 1475
- Gerig, Hans J.: see Heidegger, Thomas
- Gerstenblith, Gary: see Faraday, Nauder
- Ghignone, Marco: see Quintin, Luc
- Goodman, Mark M.: see Votaw, John R.
- Gores, Gregory J.: see Johnson, Michael E.
- Gorski, Lukasz: see Alkire, Michael T.
- Gottrup, Hanne, Juhl, Gitte, Kristensen, Anders D., Lai, Robert, Chizh, Boris A., Brown, John, Bach, Flemming W., Jensen, Troels, S.: Chronic Oral Gabapentin Reduces Elements of Central Sensitization in Human Experimental Hyperalgesia, 1400
- Gottschalk, Allan, Raja, Srinivasa N.: Severing the Link between Acute and Chronic Pain: The Anesthesiologist's Role In Preventive Medicine, 1063
- Gottschalk, André, Freitag, Marc, Tank, Sascha, Burmeister, Marc-Alexander, Kreißl, Sonja, Kothe, Ralph, Hansen-Algenstedt, Nils, Weisner, Lothar, Staude, Hans-Jürgen, Standl, Thomas: Quality of Postoperative Pain Using an Intraoperatively Placed Epidural Catheter after Major Lumbar Spinal Surgery, 175
- Gottschlich, Birgit: see Litz, Rainer J.
- Gourdeau, Marie: see Vezina, Daniel P.
- Grabner, Tanja: see Dahaba, Ashraf A.
- Gradert, Tamara Lee, Baze, Wallace B., Satterfield, William C., Hildebrand, Keith R., Johansen, Mary J., Hassenbusch, Samuel J.: In Reply, 258
- Grady, James J.: see Vane, Luiz A.
- Graham, Brent: see McCartney, Colin J. L.
- Grant, Gilbert J., Barenholz, Yechezkel, Bolutin, Elijah M., Bansinath, Mylarraro, Turndorf, Herman, Piskoun, Boris, Davidson, Elyad M.: A Novel Liposomal Bupivacaine Formulation to Produce Ultralong-Acting Analgesia, 133
- Grasshoff, Christian, Antkowiak, Bernd: Propofol and Sevoflurane Depress Spinal Neurons *In Vitro* via Different Molecular Targets, 1167
- Gray, Andrew T.: see Schaffhalter-Zoppoth, Ingeborg
- Gregg, Ronald G.: see Liem, Edwin B.
- Greher, Manfred: see Kirchmair, Lukas
- Greher, Manfred, Kirchmair, Lukas, Enna, Birgit, Kovacs, Peter, Gustorff, Burkhard, Kapral, Stephan, Moriggl, Bernhard: Ultrasound-guided Lumbar Facet Nerve Block: Accuracy of a New Technique Confirmed by Computed Tomography, 1195
- Griffith, Scott: see Musser, Jeffrey B.
- Grocott, Hilary P.: see Homi, H. Mayumi
- Grundmann, Ulrich: see Kreuer, Sascha
- Gude, Francisco: see Taboada, Manuel
- Guidoin, Robert: see Vezina, Daniel P.
- Gunter, Joel B.: see Wu, Junzheng
- Gustorff, Burkhard: see Greher, Manfred
- Guyot, Romain: see Debon, Richard
- Gyldensted, Carsten: see Rasmussen, Mads
- H**
- Habib, Aaida: see Rabuel, Christophe
- Hadzic, Admir, Arliss, Jeffrey, Kerimoglu, Beklen, Karaca, Pelin Emine, Yufa, Marina, Claudio, Richard E., Vloka, Jerry D., Rosenquist, Richard, Santos, Alan C., Thys, Daniel M.: A Comparison of Infraclavicular Nerve Block versus General Anesthesia for Hand and Wrist Day-case Surgeries, 127
- Hagberg, Carin A.: see Gaitini, Luis A.
- Hahn, Robert G.: see Svensén, Christer H.
- Halkar, Raghu: see Votaw, John R.
- Hall, Stuart R.: see Ikemba, Catherine M.
- Halsal, Jane P.: see Duke, Adrian M.
- Hamada, Yoshikazu, Kameyama, Yoshiyuki, Iizuka, Toru, Ishizaki, Taku, Nishiyama, Takahisa, Isshiki, Atsushi: Methemoglobinemia from Hydrogen Peroxide in a Patient with Acatalasemia, 247
- Hamakawa, Tohiro: see Onizuka, Shin
- Han, Richard, Tremper, Kevin K., Kheterpal, Sachin, O'Reilly, Michael: Grading Scale for Mask Ventilation, 267
- Handa-Tsutsui, Fumi, Matsumoto, Takahiro, Seino, Yusuke, Hillel, Zaharia, Thys, Daniel M.: Learning Aid for Geometric Relations of Cardiac Valves, 1050
- Hanley, Peter J., ter Keurs, Henk E. D. J., Cannell, Mark B.: Excitation-contraction Coupling in the Heart and the Negative Inotropic Action of Volatile Anesthetics, 999
- Hannenberg, Alexander A., Cohen, Norman A.: Intra-service Time Is Not a Proxy for Operating Room Time, 1041
- Hannon, James D., Cody, Mark J., Sun, David X., Housmans, Philippe R.: Effects of Isoflurane and Sevoflurane on Intracellular Calcium and Contractility in Pressure-overload Hypertrophy, 675
- Hansen-Algenstedt, Nils: see Gottschalk, André
- Haratnik, Kathy A.: see Wallace, Arthur W.
- Harrington, Donna J.: see Reich, David L.
- Hashizume, Yoshitaka: see Takiguchi, Tetsuo
- Haspeslagh, Sara, Van Zundert, Jan, Vissers, Kris: In Reply, 1482
- Hassenbusch, Samuel J.: see Gradert, Tamara Lee
- Hatano, Yashio: see Yu, Jingui
- Hatano, Yoshio: see Dojo, Mayuko
- Hatterscheid, Dirk: see Fechner, Jörg
- Hattori, Jun-ichi, Yamakage, Michiaki, Seki, Sumihiko, Okazaki, Kayoka, Namiki, Akiyoshi: Inhibitory Effects of the Anesthetics Propofol and Sevoflurane on Spontaneous Lymphatic Vessel Activity in Rats, 687
- Havemann, Luke M.: see Ikemba, Catherine M.

Havdich, Jeana E. *see* Haynes, Gary R.
 Haynes, Gary R., Havdich, Jeana E., Payne, Kim J.: Why the Food and Drug Administration Changed the Warning Label for Hetastarch, 560
 Head, C. Alvin. *see* Firth, Paul G.
 Hebert, Jean-Louis. *see* Edouard, Alain R.
 Heerdt, Paul M.: Anesthesia and Multiorgan Protein Remodeling, 1040
 Heffner, Cori L. *see* Wheeler, Melissa
 Heidegger, Thomas, Gerig, Hans J.: Unanticipated Difficult Airway: What about Emergency Cases?, 1485
 Hellstern, Angelika. *see* Schmidt, Gunter N.
 Henkel, Gretchen: This Month in Anesthesiology, 5A
 Hepner, David L., Tsen, Lawrence C.: Severe Thrombocytopenia, Type 2B von Willebrand Disease and Pregnancy, 1465
 Hertz, Paul H. *see* Weinberg, Guy L.
 Herzlinger, George: In Reply: Inductive Warming of Intravenous Fluids, 1021
 Higuchi, Hideyuki, Adachi, Yuhsu, Kazama, Tomiei: Factors Affecting the Spread and Duration of Epidural Anesthesia with Ropivacaine, 451
 Hildebrand, Keith R. *see* Gradert, Tamara Lee
 Hillel, Zaharia. *see* Handa-Tsutsui, Fumi
 Hobbhahn, Jonny. *see* Weber, Frank
 Hoeft, Andreas. *see* Ellerkmann, Richard Klaus
 Hoetzel, Alexander. *see* Loop, Torsten
 Hoff, Gudrun. *see* Bauer, Michael
 Hoffer, Christine. *see* Kharasch, Evan D.
 Hogan, Quinn, Sapunar, Damir, Modric-Jednacak, Ksenija, McCallum, J. Bruce: Detection of Neuropathic Pain in a Rat Model of Peripheral Nerve Injury, 476
 Hollinger, Ingrid. *see* Reich, David L.
 Hollweck, Regina. *see* Engelhard, Kristin
 Holthausen, Holger. *see* Muth-Selbach, Uta
 Homi, H. Mayumi, Yokoo, Noriko, Ma, Daqing, Warner, David S., Franks, Nicholas P., Maze, Mervyn, Grocott, Hilary P.: In Reply, 261
 Hopkins, Philip M. *see* Duke, Adrian M.
 Horiuchi, Toshinori. *see* Kawaraguchi, Yoshitaka
 Hörmann, Christoph. *see* Oczenski, Wolfgang
 Horn, Bettina. *see* Schneider, Gerhard
 Housmans, Philippe R. *see* Hannon, James D.
 Hsu, Tsz-Ching. *see* Chen, Carl P. C.
 Hsu, Yung-Wei. *see* Cortinez, Luis I.
 Hsu, Yung-Wei, Cortinez, Luis I., Robertson, Kerri M., Keifer, John C., Sun-Ping, Sam T., Moretti, Eugene W., Young, Christopher C., Wright, David R., MacLeod, David B., Somma, Jacques: Dexmedetomidine Pharmacodynamics: Part I: Crossover Comparison of the Respiratory Effects of Dexmedetomidine and Remifentanyl in Healthy Volunteers, 1066
 Huang, Jeffrey: Frequent Utilization of Fluoroscopy Is Essential for Precise Needle Placement in Interventional Pain Procedure, 1481
 Hubloue, Yves. *see* Kerbaul, François
 Hudson, Robert J., Thomson, Ian R., Jassal, Rajive: Effects of Cardiopulmonary Bypass on Sufentanil Pharmacokinetics in Pa-

tients Undergoing Coronary Artery Bypass Surgery, 862
 Humar, Matjaz. *see* Loop, Torsten
 Hüneke, Rocco, Zitzelsberger, Daniela, Fassl, Jens, Jüngling, Eberhard, Brose, Stefan, Buhre, Wolfgang, Rossaint, Rolf, Lückhoff, Andreas: Temperature-independent Inhibition of L-Type Calcium Currents by Halothane and Sevoflurane in Human Atrial Cardiomyocytes, 409
 Husser, Casey S., Chamblee, Brian, Brown, Michael J., Long, Timothy R., Wass, C. Thomas: Inductive Warming of Intravenous Fluids: Overheating of the Toroid Heating Element during Rapid Infusion, 1019
 Hutzler, Peter. *see* Engelhard, Kristin
 Hwang, Nian Chih. *see* Bong, Choon Looi
 Hynd, Ryan. *see* Cooper, David W.

I

Ibacache, Mauricio E. *see* Muñoz, Hernán R.
 Ibinson, Jame W., Small, Robert H., Algaze, Antonio, Roberts, Cynthia J., Clark, David L., Schmalbrock, Petra: Functional Magnetic Resonance Imaging Studies of Pain: An Investigation of Signal Decay during and across Sessions, 960
 Ibusuki, Shoichiro. *see* Onizuka, Shin
 Ihmsen, Harald. *see* Fechner, Jörg
 Iida, Ryoji, Munakata, Kazuhiko, Suzuki, Takahiro, Sacki, Shigeru, Ogawa, Setsuro: Reactivation of Phantom Limb Pain Immediately after Cervical Spinal Decompression, 790
 Iizuka, Toru. *see* Hamada, Yoshikazu
 Ikemba, Catherine M., Su, Jason T., Stayer, Stephen A., Miller-Hance, Wanda C., Eadem, Benjamin W., Bezold, Louis L., Hall, Stuart R., Havemann, Luke M., Andropoulos, Dean B.: Myocardial Performance Index with Sevoflurane-Pancuronium *versus* Fentanyl-Midazolam-Pancuronium in Infants with a Functional Single Ventricle, 1298
 Ikonomidou, Chrysanthi. *see* Olney, John W.
 Ilfeld, Brian M., Thannikary, Lisa J., Morey, Timothy E., Vander Griend, Robert A., Enneking, F. Kayser: Popliteal Sciatic Perineural Local Anesthetic Infusion: A Comparison of Three Dosing Regimens for Postoperative Analgesia, 970
 Inchiosa, Maria A., Jr. *see* Shibutani, Kinichi
 Ingersoll-Weng, Esperanza. *see* Manecke, Gerard R., Jr.
 Inoue, Satoki, Drummond, John C., Davis, Daniel P., Cole, Daniel J., Patel, Piyush M.: Combination of Isoflurane and Caspase Inhibition Reduces Cerebral Injury in Rats Subjected to Focal Cerebral Ischemia, 75
 Irestedt, Lars. *see* Moen, Vibeke
 Irwin, Michael G. *see* Zhang, Ye
 Ishimura, Hiroshi. *see* Takenaka, Ichoro
 Ishizaki, Taku. *see* Hamada, Yoshikazu
 Isshiki, Atsushi. *see* Hamada, Yoshikazu
 Iwagaki, Tamao. *see* Takenaka, Ichoro

J

Jacob, Adam K., Borowiec, James C., Long, Timothy R., Brown, Michael J., Rydberg, Charlotte H., Wass, C. Thomas: Transient Profound Neurologic Deficit Associated with Thoracic Epidural Analgesia in an Elderly Patient, 1470
 Jarrar, Marwan. *see* Skarke, Carsten
 Jassal, Rajive. *see* Hudson, Robert J.
 Jeleazcov, Christian. *see* Fechner, Jörg
 Jensen, Troels, S. *see* Gottrup, Hanne
 Jevtic-Todorovic, Vesna. *see* Olney, John W.
 Jeyaraj, Leo. *see* Cooper, David W.
 Ji, Hyun-Ju. *see* Oh, Chang-Seok
 Jian, Mingyuan. *see* Koizumi, Tomonobu
 Jiang, Xiaojing, Shi, Enyi, Nakajima, Yoshiki, Sato, Shigehito: Inducible Nitric Oxide Synthase Mediates Delayed Cardioprotection Induced by Morphine *In Vitro*: Evidence from Pharmacologic Inhibition and Gene-knockout Mice, 82
 Johansen, Mary J. *see* Gradert, Tamara Lee
 Johansson, Jonas S. *see* Eckenhoff, Roderic G.
 Johnson, Ken B., Egan, Talmage D., Kern, Steven E., McJames, Scott W., Cluff, Mark L., Pace, Nathan L.: Influence of Hemorrhagic Shock Followed by Crystalloid Resuscitation on Propofol: A Pharmacokinetic and Pharmacodynamic Analysis, 647
 Johnson, Michael E. *see* Burrow, Bethanie K.
 Johnson, Michael E., Uhl, Cindy B., Spittler, Karl-Heinz, Wang, Hongxun, Gores, Gregory J.: Mitochondrial Injury and Caspase Activation by the Local Anesthetic Lidocaine, 1184
 Johnson, Ray, Jr. *see* Veselis, Robert A.
 Jones, Dean R. *see* Gallos, George
 Jones, Keith A. *see* Sakihara, Chie
 Joseph, Ninos J. *see* El-Orbany, Mohammad I.
 Joukovsky, Pascal. *see* Chazot, Thierry
 Juhl, Gitta. *see* Gottrup, Hanne
 Jüngling, Eberhard. *see* Hüneke, Rocco
 Juul, Niels. *see* Rasmussen, Mads

K

Kadoya, Tatsuo. *see* Takenaka, Ichoro
 Kahn, William. *see* Martin, Thomas J.
 Kakimoto, Meiko, Kawaguchi, Masahiko, Furuya, Hitoshi: In Reply, 262
 Kakutani, Tetsuya. *see* Yu, Jingui
 Kameyama, Yoshiyuki. *see* Hamada, Yoshikazu
 Kampine, John P. *see* Stekiel, Thomas A.
 Kanazawa, Masahiro, Suzuki, Toshiyasu: Intracuff Pressure Monitoring during Nitrous Oxide Anesthesia when Using the Soft Seal® Laryngeal Mask, 264
 Kang, Baobin. *see* Eckenhoff, Roderic G.
 Kanta Dua, Chander. *see* Kumar, Rakesh
 Kapral, Stephan. *see* Greher, Manfred; Kirchmair, Lukas
 Karaca, Pelin Emine. *see* Hadzic, Admir
 Karaian, John E. *see* Musser, Jeffrey B.
 Kardatzke, David. *see* Wallace, Arthur W.
 Kariya, Nobutaka. *see* Simon, Lionel
 Karpati, Peter C. J., Rossignol, Matthias, Vi-

- caut, Eric, Payen, Didier, Mebazaa, Alexandre: In Reply, 1037
- Kasaba, Toshiharu. *see* Onizuka, Shin
- Kasch-Semenza, Laura. *see* Faraday, Nauder
- Katz, Joel. *see* McCartney, Colin J. L.
- Katz, Joel, Cohen, Lorenzo: Preventive Analgesia Is Associated with Reduced Pain Disability 3 Weeks but Not 6 Months after Major Gynecologic Surgery by Laparotomy, 169
- Kaufman, Ian. *see* Deschamps, Alain
- Kaul, Tej K. *see* Tewari, Anurag
- Kawaguchi, Masahiko. *see* Kakimoto, Meiko; Kawaraguchi, Yoshitaka
- Kawamoto, Tomoyuki. *see* Toriyabe, Masaki
- Kawano, Takashi, Oshita, Shuzo, Takahashi, Akira, Tsutsumi, Yasuo, Tomiyama, Yoshinobu, Kitahata, Hiroshi, Kuroda, Yasuhiro, Nakaya, Yutaka: Molecular Mechanisms of the Inhibitory Effects of Bupivacaine, Levobupivacaine, and Ropivacaine on Sarcolemmal Adenosine Triphosphate-sensitive Potassium Channels in the Cardiovascular System, 390
- Kawaraguchi, Yoshitaka, Kawaguchi, Masahiko, Takahashi, Masahiro, Horiuchi, Toshinori, Sakamoto, Takanori, Furuya, Hitoshi: Delta-opioid Agonist SNC80 Can Attenuate the Development of Dynorphin A-induced Tactile Allodynia in Rats, 546
- Kaysers, Ernst-Bernhard, Morgan, Phil G., Sedensky, Margaret M.: Mitochondrial Complex I Function Affects Halothane Sensitivity in *Caenorhabditis elegans*, 365
- Kazama, Tomiei. *see* Higuchi, Hideyuki
- Keidan, Ian, Perel, Azriel: In Reply, 1044
- Keifer, John C. *see* Cortinez, Luis I.; Hsu, Yung-Wei
- Keller, Christian. *see* Oczenski, Wolfgang
- Keller, Christian. *see* Brimacombe, Joseph
- Keller, Jason M. *see* Eckenhoof, Roderic G.
- Kellermann, Kristine. *see* Engelhard, Kristin
- Kempenn, Paul Martin: Why Should Primary Care Physicians Even Wait for Surgery in High Risk Patients?, 801
- Kepka, Anton. *see* Oczenski, Wolfgang
- Kerbaul, François, Rondelet, Benoît, Motte, Sophie, Fesler, Pierre, Hubloue, Yves, Ewalenko, Patricia, Naeije, Robert, Bri-mioule, Serge: Isoflurane and Desflurane Impair Right Ventricular-Pulmonary Arterial Coupling in Dogs, 1357
- Kerimoglu, Beklen. *see* Hadzic, Admir
- Kern, Steven E. *see* Johnson, Ken B.
- Kersten, Judy R. *see* Chiari, Pascal C.
- Kertai, Miklos, D., Bax, Jeroen J., Klein, Jan, Poldermans, Don: In Reply, 1245
- Kertai, Miklos D., Bax, Jeroen J., Klein, Jan, Poldermans, Don: In Reply, 805
- Kharasch, Evan D., Hoffer, Christine, Whittington, Dale: Influence of Age on the Pharmacokinetics and Pharmacodynamics of Oral Transmucosal Fentanyl Citrate, 738
- Kharasch, Evan D., Whittington, Dale, Hoffer, Christine: Influence of Hepatic and Intestinal Cytochrome P4503A Activity on the Acute Disposition and Effects of Oral Transmucosal Fentanyl Citrate, 729
- Kharasch, Evan D., Wood, Margaret, Deutschman, Clifford S., Todd, Michael M.: Journal-related Activities at the 2004 American Society of Anesthesiologists Annual Meeting, 571
- Kheterpal, Sachin. *see* Han, Richard
- Khorasani, Arjang. *see* Voronov, Gennadiy
- Kies, Susan J., Danielson, David R., Dennison, David G., Warner, Mary E., Warner, Mark A.: Perioperative Compartment Syndrome of the Hand, 1232
- Kihara, Shinichi, Brimacombe, Joseph R., Yaguchi, Yuichi, Taguchi, Noriko, Watanabe, Seiji: A Comparison of Sex- and Weight-based ProSeal® Laryngeal Mask Size Selection Criteria: A Randomized Study of Healthy Anesthetized, Paralyzed Adult Patients, 340
- Kihara, Shinichi, Brimacombe, Joseph R.: In Reply, 801
- Kim, Hee-Jin. *see* Sohn, Ju-Tae
- Kimoto, Yoshiki. *see* Dojo, Mayuko
- Kinoshita, Hiroyuki. *see* Dojo, Mayuko
- Kinsky, Michael A. *see* Vane, Luiz A.
- Kirschmair, Lukas. *see* Greher, Manfred
- Kirschmair, Lukas, Enna, Birgit, Mitterschiff-thaler, Gottfried, Morrigl, Bernhard, Greher, Manfred, Marhofer, Peter, Kapral, Stephan, Gassner, Ingmar: Lumbar Plexus in Children: A Sonographic Study and Its Relevance to Pediatric Regional Anesthesia, 445
- Kissin, Igor, Lee, Sandra S.: Effects of Long-term Nerve Blockade in the Spared Nerve Injury Model, 806
- Kitagawa, Norihito, Oda, Mayuko, Totoki, Tadahide: In Reply, 1249
- Kitagawa, Norihito, Oda, Mayuko, Totoki, Tadahide, Miyazaki, Noriaki, Nagasawa, Ichiro, Nakazono, Takahiko, Tamai, Tsutomu, Morimoto, Masatoshi: Proper Shoulder Position for Subclavian Venipuncture: A Prospective Randomized Clinical Trial and Anatomical Perspectives Using Multislice Computed Tomography, 1306
- Kitagawa, Yutaka. *see* Kuzumoto, Naoya
- Kitahata, Hiroshi. *see* Kawano, Takashi
- Kitajima, Toshimitsu. *see* Takiguchi, Tetsuo
- Kittelberger, Keith P., Buchheit, Thomas E., Rice, Shirley F.: Self-extraction of Intrathecal Pump Opioid, 807
- Klafta, Jerome M., Mathew, Mary C.: Auto-Positive End-expiratory Pressure Masking as Loss of Lung Separation during Thoracoscopy, 1229
- Klein, Jan. *see* Kertai, Miklos D.
- Klein, Jan. *see* Kertai, Miklos D.
- Kochs, Eberhard. *see* Engelhard, Kristin
- Kochs, Eberhard, F. *see* Schneider, Gerhard
- Kochs, Eberhard F. *see* Schneider, Gerhard
- Koizumi, Tomonobu, Ogasawara, Hitoshi, Yamamoto, Hiroshi, Tsushima, Kenji, Ruan, Zonghai, Jian, Mingyuan, Fujimoto, Keisaku, Kubo, Keishi: Effect of ONO1714, a Specific Inducible Nitric Oxide Synthase Inhibitor, on Lung Lymph Filtration and Gas Exchange during Endotoxemia in Unanesthetized Sheep, 59
- Kokri, Manmohan S. *see* Cooper, David W.
- Kollosche, Katrin. *see* Muth-Selbach, Uta
- Kolodzie, Kerstin. *see* Gerbershagen, Mark Ulrich
- Kothe, Ralph. *see* Gottschalk, André
- Kovacs, Peter. *see* Greher, Manfred
- Koyama, Hideki. *see* Suzuki, Takahiro
- Kraemer, Thomas. *see* Bauer, Michael
- Kramer, George C. *see* Vane, Luiz A.
- Kras, Joseph F. *see* Murray, David J.
- Kreiβl, Sonja. *see* Gottschalk, André
- Kreuer, Sascha. *see* Bauer, Michael
- Kreuer, Sascha. *see* Ellerkmann, Richard Klaus
- Kreuer, Sascha, Bruhn, Jörgen, Larsen, Reinhard, Grundmann, Ulrich, Shafer, Steven L., Wilhelm, Wolfram: Application of Bispectral Index® and Narcotrend® Index to the Measurement of the Electroencephalographic Effects of Isoflurane with and without Burst Suppression, 847
- Kreuzer, Matthias. *see* Schneider, Gerhard
- Krishnankutty, Shakuntala. *see* Voronov, Gennadiy
- Kristensen, Anders D. *see* Gottrup, Hanne
- Kroin, Jeffrey S., Buvanendran, Asokumar, Beck, Daniel R., Topic, Julie E., Watts, Daniel E., Tuman, Kenneth, J.: Clonidine Prolongation of Lidocaine Analgesia after Sciatic Nerve Block in Rats Is Mediated via the Hyperpolarization-activated Cation Current, Not by α -Adrenoreceptors, 488
- Krolkowski, John G. *see* Chiari, Pascal C.
- Kronberg, Jean. *see* Angle, Pamela
- Kubo, Keishi. *see* Koizumi, Tomonobu
- Kumar, Francis C. *see* Muntazar, Muhammad
- Kumar, Rakesh, Mittal, Shrawan, Kumar, Sunil, Kanta Dua, Chander: Use of a Fogarty Catheter Sheath as an Endotracheal Tube Changer, 1486
- Kumar, Sunil. *see* Kumar, Rakesh
- Kurihara, Satoshi. *see* Mio, Yasushi
- Kuroda, Yasuhiro. *see* Kawano, Takashi
- Kusakari, Yoichiro. *see* Mio, Yasushi
- Kuschinsky, Wolfgang. *see* Fütterer, Carsten D.
- Kuzumoto, Naoya, Kitagawa, Yutaka, Uemura, Koichi, Ueyama, Takashi, Yoshida, Ken-ichi, Furuya, Hitoshi, Takaki, Miyako: A Brief Regional Ischemic-reperfusion Enhances Propofol-induced Depression in Left Ventricular Function of *in situ* Rat Hearts, 879
- Kwok, Wai-Meng. *see* Aizawa, Kei

L

- Labuz, Dominika. *see* Brack, Alexander
- Lacassie, Hector J., Lacassie, Hector P., Muir, Holly A.: Is the Minimum Local Analgesic Concentration Method Robust Enough?, 550
- Lacassie, Hector P. *see* Lacassie, Hector J.
- Ladd, Leigh A. *see* Mather, Laurence E.
- Lähdesmäki, Janne. *see* Mansikka, Heikki
- Lai, Robert. *see* Gottrup, Hanne
- Lambert, Donald H., Lambert, Laura A., Strichartz, Gary R.: Questioning the Mechanism of Nerve Injury, 1249
- Lambert, Donald H., Strichartz, Gary R.: In Defense of *In Vitro* Findings, 1246
- Lambert, Laura A. *see* Lambert, Donald H.
- Langer, Michael. *see* Skarke, Carsten
- Langeron, Olivier. *see* Amour, Jerome
- Larsen, Reinhard. *see* Bauer, Michael; Kreuer, Sascha
- Lauretti, Gabriela R., Trevelin, Wilder R., Frade, Luis-Cleber P., Lima, Izabel C. P. R.: Spinal Alcohol Neurolysis for Intractable

- Thoracic Postherpetic Neuralgia after Test Bupivacaine Spinal Anesthesia, 244
- Lavand'homme, Patricia M. *see* Roelants, Fabienne
- Layug, Elizabeth L. *see* Wallace, Arthur W.
- Lazo, Eleanor A. *see* Wallace, Arthur W.
- Lee, H. Thomas. *see* Gallos, George
- Lee, H. Thomas, Ota-Setlik, Ayuko, Fu, Yulei, Nasr, Samih H., Emala, Charles W.: Differential Protective Effects of Volatile Anesthetics against Renal Ischemia-Reperfusion Injury *In Vivo*, 1313
- Lee, Heon-Keun. *see* Sohn, Ju-Tae
- Lee, Lorri A., Posner, Karen L., Domino, Karen B., Caplan, Robert A., Cheney, Frederick W.: Injuries Associated with Regional Anesthesia in the 1980s and 1990s: A Closed Claims Analysis, 143
- Lee, Sandra S. *see* Kissin, Igor
- Leibundgut, Daniel. *see* Locher, Stephan
- Leighton, Barbara L. *see* Fatheree, Randy S.
- Lemaire, Marc. *see* Abiraini, Jacques
- Leimer, Björn. *see* Debon, Richard
- Lerman, Jerrold, Crawford, Mark W.: Two Manuscripts, Too Similar, 801
- Leslie, Kate, Devereaux, Philip J.: A Large Trial Is Vital to Prove Perioperative β -blockade Effectiveness and Safety before Widespread Use, 803
- Lessard, Martin R. *see* Vezina, Daniel P.
- Lew, Henry L. *see* Chen, Carl P. C.
- Leyland, John T.: Amateur Dentistry and the Anesthesiologist, 1051
- Lichtenbelt, Bart-Jan. *see* Vuyk, Jaap
- Lieb, William R. *see* Franks, Nicholas P.
- Liem, Edwin B., Lin, Chun-Ming, Suleman, Mohammed-Irfan, Doufas, Anthony G., Gregg, Ronald G., Veauthier, Jacqueline M., Loyd, Gary, Sessler, Daniel I.: Anesthetic Requirement is Increased in Redheads, 279
- Liermann, Vidal-Markus. *see* Ellerkmann, Richard Klaus
- Lima, Isabel C. P. R. *see* Lauretti, Gabriela R.
- Lin, Chun-Ming. *see* Liem, Edwin B.
- Lipfert, Peter. *see* Muth-Selbach, Uta
- List, Werner F. *see* Dahaba, Ashraf A.
- Litman, Ronald. *see* Cladis, Franklin
- Litz, Rainer J., Gottschlich, Birgit, Stehr, Sebastian N.: Spinal Epidural Hematoma after Spinal Anesthesia in a Patient Treated with Clopidogrel and Enoxaparin, 1467
- Liu, Hung-Pin. *see* Chen, Carl P. C.
- Liu, Ngai. *see* Chazot, Thierry
- Liu, Spencer S., Block, Brian M., Wu, Christopher L.: Effects of Perioperative Central Neuraxial Analgesia on Outcome after Coronary Artery Bypass Surgery: A Meta-analysis, 153
- Liu, Spencer S.: Effects of Bispectral Index Monitoring on Ambulatory Anesthesia: A Meta-analysis of Randomized Controlled Trials and a Cost Analysis, 311
- Li Volti, Giovanni. *see* Acquaviva, Rosaria
- Locher, Stephan, Stadler, Konrad S., Boehlen, Thomas, Bouillon, Thomas, Leibundgut, Daniel, Schumacher, Peter M., Wymann, Rolf, Zbinden, Alex M.: A New Closed-Loop Control System for Isflurane Using Bispectral Index Outperforms Manual Control, 591
- London, Martin J. *see* Zaugg, Michael
- London, Martin J., Zaugg, Michael, Schaub, Marcus C., Spahn, Donat R.: In Reply, 804
- Long, Timothy R. *see* Husser, Casey S.; Jacob, Adam K.
- Long, Timothy R., Wass, C. Thomas: An Alternative to Transtracheal Injection for Fiberoptic Intubation in Awake Patients: A Novel Noninvasive Technique Using a Standard Multifit Epidural Catheter through the Bronchoscope Suction Port, 1253
- Loop, Torsten, Scheiermann, Patrick, Doviakue, David, Musshoff, Frank, Humar, Matjaz, Roesslein, Martin, Hoetzel, Alexander, Schmidt, Rene, Burkhard, Madea, Geiger, Klaus K., Pahl, Heike L., Pannen, Benedikt H. J.: Sevoflurane Inhibits Phorbol-Myristate-Acetate-induced Activator Protein-1 Activation in Human T Lymphocytes *in Vitro*: Potential Role of the p38-Stress Kinase Pathway, 710
- Lorenzl, Norbert. *see* Oczenski, Wolfgang
- Lötsch, Jörn. *see* Skarke, Carsten
- Loyd, Gary. *see* Liem, Edwin B.
- Lu, Qin. *see* Roubly, Jean-Jacques
- Lu, Ying. *see* Smiley, Matthew M.
- Lückhoff, Andreas. *see* Hüncke, Rocco
- Ludwig, Lynda M. *see* Chiari, Pascal C.
- Luginbühl, Martin. *see* Svetcic, Gorazd
- Lujan, Eugenio. *see* Young, Christopher C.
- Luterman, David L. *see* Ramsay, Michael A. E.
- Lynch, Carl, III. *see* Castro, Barbara A.

M

- Ma, Daqing. *see* Homi, H. Mayumi
- Macachor, Joselo D. *see* Bong, Choon Looi
- Macchelska, Halina. *see* Brack, Alexander
- MacKenzie, Eric T. *see* Abiraini, Jacques
- MacLeod, David. *see* Cortinez, Luis I.
- MacLeod, David B. *see* Hsu, Yung-Wei
- Madea, Burkhard. *see* Loop, Torsten
- Maeda, Yoshiko, Fujino, Yuji, Uchiyama, Akinori, Matsuura, Nariaki, Mashimo, Takashi, Nishimura, Masaji: Effects of Peak Inspiratory Flow on Development of Ventilator-induced Lung Injury in Rabbits, 722
- Malhotra, Surender Kumar. *see* Arya, Virenda Kumar
- Malkuch, Gerald. *see* McAllister, Russell K.
- Manecke, Gerard R., Jr., Ingersoll-Weng, Esperanza, Thistlethwaite, Patricia A.: In Reply, 1480
- Mangiameli, Salvatore. *see* Acquaviva, Rosaria
- Mann, Dharam P., Der Ananian, John, Alston, Theodore A.: Oxygen Flush Valve Booby Trap, 558
- Mansikka, Heikki, Lähdesmäki, Janne, Scheinin, Mika, Pertovaara, Antti: α_{2A} Adrenoceptors Contribute to Feedback Inhibition of Capsaicin-induced Hyperalgesia, 185
- Manson, Roberto J. *see* Uemura, Kenichiro
- Mantz, Jean. *see* Dahmani, Souhayl
- Marcucci, Catherine, Sandson, Neil B., Dunlap, Joyce A.: Linezolid-Bupropion Interaction as Possible Etiology of Severe Intermittent Intraoperative Hypertension?, 1488
- Marhofer, Peter. *see* Kirchmair, Lukas
- Martin, Laurent. *see* Edouard, Alain R.
- Martin, Thomas J., Buechler, Nancy L., Kahn, William, Crews, James C., Eisenach, James C.: Effects of Laparotomy on Spontaneous Exploratory Activity and Conditioned Operant Responding in the Rat: A Model for Postoperative Pain, 191
- Martinez, Elizabeth A. *see* Faraday, Nauder
- Marymont, Jesse E. *see* Murphy, Glenn S.
- Mashimo, Takashi. *see* Maeda, Yoshiko; Suzuki, Takahiro
- Mashour, George A.: In Reply, 1046
- Masuda, Takako, Cairns, Brian E., Sadhasivam, Senthikumar, Dunning, Patricia S., Berde, Charles B.: Epinephrine Prevents Muscle Blood Flow Increases after Perineural Injection of Tetrodotoxin, 1428
- Mather, Laurence E., Duke, Colin C., Ladd, Leigh A., Copeland, Susan E., Gallagher, Gabrielle, Chang, Dennis H.-T.: Direct Cardiac Effects of Coronary Site-directed Thiopental and Its Enantiomers: A Comparison to Propofol in Conscious Sheep, 354
- Mateh, Mary C. *see* Klapka, Jerome M.
- Matic, Adrian A., Arndt, George A.: Unassisted Gum Elastic Bougie-guided Insertion of the ProSeal[®] Laryngeal Mask Airway, 1240
- Matot, Idit. *see* Rivo, Julia
- Matsumoto, Takahiro. *see* Handa-Tsutsui, Fumi
- Matsuura, Nariaki. *see* Maeda, Yoshiko
- Matute, Purificación. *see* Sala-Blanch, Xavier
- Maurer, Martin H. *see* Fütterer, Carsten D.
- Mayhew, James F. *see* Shroff, Persis K.
- Maze, Mervyn. *see* Angst, Martin S.; Ebert, Thomas; Homi, H. Mayumi
- Maze, Mervyn, Angst, Martin S.: Dexmedetomidine and Opioid Interactions: Defining the Role of Dexmedetomidine for Intensive Care Unit Sedation, 1059
- Mazoit, Jean-X., Eyrolle, Luc J.: In Reply, 555
- Mazoit, Jean-Xavier. *see* Simon, Lionel
- McAllister, John D. *see* Murray, David J.
- McAllister, Russell K., Carpentier, Brad W., Malkuch, Gerald: Sacral Postherpetic Neuralgia and Successful Treatment Using a Paramedian Approach to the Ganglion Impar, 1472
- McCallum, J. Bruce. *see* Hogan, Quinn
- McCarthy, Robert J. *see* Scavone, Barbara M.
- McCartney, Colin J. L., Brull, Richard, Chan, Vincent W. S., Katz, Joel, Abbas, Sherif, Graham, Brent, Nova, Hugo, Rawson, Regan, Anastakis, Dimitri J., von Schroeder, Herbert: Early but No Long-term Benefit of Regional Compared with General Anesthesia for Ambulatory Hand Surgery, 461
- McClaire, Deborah J. *see* Uemura, Kenichiro
- McClaine, Rebecca J. *see* Uemura, Kenichiro
- Mchaourab, Ali S.: Cervical Epidural Steroid Injection: Impact of Cervical Epidural Anatomy, 1238
- McJames, Scott W. *see* Johnson, Ken B.
- McMillan, Marion R.: Intrathecal Morphine and Inflammatory Masses, 255
- Mebazua, Alexandre. *see* Karpati, Peter C. J.; Rabuel, Christophe
- Meek, Tim. *see* Cooper, David W.
- Mecus, Roel. *see* De Hert, Stefan G.
- Melnick, Igor V. *see* Santos, Sônia F. A.
- Menge, Melanie. *see* Fiege, Marko
- Metzler, Helfried. *see* Dahaba, Ashraf A.

Miller-Hance, Wanda C. *see* Ikemba, Catherine M.
 Mills, Edward M. *see* Rusyniak, Daniel E.
 Mio, Yasushi, Fukuda, Norio, Kusakari, Yoichiro, Amaki, Yoshiaki, Tanifuji, Yasumasa, Kurihara, Satoshi: Comparative Effects of Bupivacaine and Ropivacaine on Intracellular Calcium Transients and Tension in Ferret Ventricular Muscle, 888
 Mitra, Sukanya, Sinatra, Raymond S.: Perioperative Management of Acute Pain in the Opioid-dependent Patient, 212
 Mittal, Shrawan. *see* Kumar, Rakesh
 Mitterschiffthaler, Gottfried. *see* Kirchmair, Lukas
 Mitton, Michael: In Reply, 558
 Miyamoto, Koho Julio. *see* Miyamoto, Tadaomi Alfonso
 Miyamoto, Tadaomi Alfonso, Miyamoto, Koho Julio: A Word on Hypothermic Preconditioning, 1042
 Miyazaki, Noriaki. *see* Kitagawa, Norihito
 Mizumoto, Kazuhiro. *see* Yu, Jingui
 Modric-Jedrnac, Ksenija. *see* Hogan, Quinn
 Moen, Vibeke, Dahlgren, Nils, Irestedt, Lars: Severe Neurological Complications after Central Neuraxial Blockades in Sweden 1990-1999, 950
 Mongan, Paul D. *see* Musser, Jeffrey B.
 Monroe, Dougald M. *see* Roberts, Harold R.
 Moon, Seon-Hak. *see* Sohn, Ju-Tae
 Moore, Michael, Power, Michael: Perioperative Hemorrhage and Combined Clopidogrel and Aspirin Therapy, 792
 Moreau, Ben. *see* Pandit, Jaideep J.
 Morelli, Andrea, Rocco, Monica, Conti, Giorgio, Orecchioni, Alessandra, De Gaetano, Andrea, Coluzzi, Flaminia, Vernagione, Enrico, Pelaia, Paolo, Pietropaoli, Paolo: Effects of Short-term Fenoldopam Infusion on Gastric Mucosal Blood Flow in Septic Shock, 576
 Moretti, Eugene W. *see* Cortinez, Luis I.; Hsu, Yung-Wei
 Morey, Timothy E. *see* Ilfeld, Brian M.
 Morgan, Phil G. *see* Kayser, Ernst-Bernhard
 Moriggl, Bernhard. *see* Greher, Manfred
 Morimoto, Masatoshi. *see* Kitagawa, Norihito
 Morrigl, Bernhard. *see* Kirchmair, Lukas
 Mortier, Eric. *see* Van Zundert, André
 Mortier, Eric P. *see* Vanluchene, Ann L. G.
 Motte, Sophie. *see* Kerbaul, François
 Muir, Holly A. *see* Lacassie, Hector J.
 Muldoon, Sheila M. *see* Sci, Yoshitatsu
 Mullen, Brendan. *see* Whitehead, Thomas C.
 Mullin, Vildan. *see* Bukhalo, Yuriy
 Mullings, Rohan. *see* Cohen, Steven P.
 Munakata, Kazuhiko. *see* Iida, Ryoji
 Muñoz, Hernán R., Cortinez, Luis I., Iba-cache, Mauricio E., Altermatt, Fernando R.: Estimation of the Plasma Effect Site Equilibration Rate Constant (k_{e0}) of Propofol in Children Using the Time to Peak Effect: Comparison with Adults, 1269
 Muntazar, Muhammad, Kumar, Francis C.: Cardiac Arrest, a Preventable yet a Possible Risk of Dexmedetomidine: Fact or Fiction?, 1479
 Murabito, Paolo. *see* Acquaviva, Rosaria
 Murphy, Glenn S., Szokol, Joseph W., Marymont, Jesse H., Avram, Michael J., Vender, Jeffery S.: Retrograde Air Embolization

during Routine Radial Artery Catheter Flushing in Adult Cardiac Surgical Patients: An Ultrasound Study, 614
 Murray, David J., Boulet, John R., Kras, Joseph F., Woodhouse, Julie A., Cox, Thomas, McAllister, John D.: Acute Care Skills in Anesthesia Practice: A Simulation-based Resident Performance Assessment, 1084
 Mushlin, Phillip S. *see* Gelman, Simon
 Musser, Jeffrey B., Bentley, Timothy B., Griffith, Scott, Sharma, Pushpa, Karaian, John E., Mongan, Paul D.: Hemorrhagic Shock in Swine: Nitric Oxide and Potassium Sensitive Adenosine Triphosphate Channel Activation, 399
 Musshoff, Frank. *see* Loop, Torsten
 Musumeci, Ilenia. *see* Acquaviva, Rosaria
 Muth-Selbach, Uta, Dybek, Eva, Kollasche, Katrin, Stegmann, Jens-Ulrich, Holthusen, Holger, Lipfert, Peter, Zeilhofer, Hanns Ulrich: The Spinal Antinociceptive Effect of Nocistatin in Neuropathic Rats Is Blocked by D-Serine, 753
 Myers, Troy. *see* Wu, Junzheng

N

Nacije, Robert. *see* Kerbaul, François
 Nagasawa, Ichiroh. *see* Kitagawa, Norihito
 Nakahata, Katsutoshi. *see* Dojo, Mayuko
 Nakajima, Yoshiki. *see* Jiang, Xiaojing
 Nakaya, Yutaka. *see* Kawano, Takashi
 Nakazono, Takahiko. *see* Kitagawa, Norihito
 Namiki, Akiyoshi. *see* Hattori, Jun-Ichi; Toriyabe, Masaki
 Nasr, Samih H. *see* Gallos, George; Lee, H. Thomas
 Nelis, Anne. *see* De Hert, Stefan G.
 Nelson, Thomas E. *see* Sei, Yoshitatsu
 Newman, Janet. *see* Weinberg, Guy L.
 Nicole, Olivier. *see* Abraini, Jacques
 Ningler, Michael. *see* Schneider, Gerhard
 Nishimura, Masaji. *see* Maeda, Yoshiko
 Nishiyama, Takahisa. *see* Hamada, Yoshikazu
 Nouvellon, Emmanuel, Ripart, Jacques: In Reply, 1045
 Nova, Hugo. *see* McCartney, Colin J. L.
 Nuttall, Gregory A. *see* Oliver, William C.

O

Obal, Detlef. *see* Toma, Octavian
 Oczenski, Wolfgang, Hörmann, Christoph, Keller, Christian, Lorenz, Norbert, Kepka, Anton, Schwartz, Sylvia, Fitzgerald, Robert D.: Recruitment Maneuvers after a Positive End-expiratory Pressure Trial Do Not Induce Sustained Effects in Early Adult Respiratory Distress Syndrome, 620
 Oda, Mayuko. *see* Kitagawa, Norihito
 Ogasawara, Hitoshi. *see* Koizumi, Tomonobu
 Ogawa, Koji. *see* Yu, Jingui
 Ogawa, Setsuro. *see* Iida, Ryoji
 Oh, Chang-Seok, Chung, In-Hyuk, Ji, Hyun-Ju, Yoon, Duck-Mi: Clinical Implications of Topographic Anatomy on the Ganglion Impar, 249
 Ok, Seong-Ho. *see* Sohn, Ju-Tae

Okazaki, Kayoko. *see* Hattori, Jun-Ichi
 Oliver, William C., Jr., Nuttall, Gregory A., Orszulak, Thomas A., Bamlet, William R., Abel, Martin D., Ereth, Mark H., Schaff, Hartzell V.: Hemofiltration but Not Steroids Results in Earlier Tracheal Extubation Following Cardiopulmonary Bypass: A Prospective, Randomized Double-blind Trial, 327
 Olney, John W., Young, Chainlie, Wozniak, David F., Ikonomidou, Chrysanthi, Jev-tovic-Todorovic, Vesna: Anesthesia-induced Developmental Neuroapoptosis: Does It Happen in Humans?, 275
 Olofen, Erik. *see* Dahan, Albert
 Omote, Keiichi. *see* Toriyabe, Masaki
 Onizuka, Shin, Kasaba, Toshiharu, Hamakawa, Toshiro, Ibusuki, Shoichiro, Takasaki, Mayumi: Lidocaine Increases Intracellular Sodium Concentration through Voltage-dependent Sodium Channels in an Identified Lymnaea Neuron, 110
 Orecchioni, Alessandra. *see* Morelli, Andrea
 O'Reilly, Michael. *see* Han, Richard
 Orszulak, Thomas A. *see* Oliver, William C.
 Ortega, Rafael A. *see* Rengasamy, Sundara K.
 Ortega, Rafael A.: When Patients Follow Commands, 1050
 Oshita, Shuzo. *see* Kawano, Takashi
 Østergaard, Leif. *see* Rasmussen, Mads
 Ota-Setlik, Ayuko. *see* Lee, H. Thomas
 Ovassapian, Andranik: Principles of Airway Management, Third Edition, 1255
 Overdyk, Frank J.: Lack of Tolerance with Propofol with Radiation Therapy Needs Patience, 1044

P

Pabelick, Christina M., Ay, Binnaz, Prakash, Yedatore S., Sieck, Gary C.: Effects of Volatile Anesthetics on Store-operated Ca^{2+} Influx in Airway Smooth Muscle, 373
 Pace, Nathan L. *see* Johnson, Ken B.
 Packer, Douglas L. *see* Burrow, Bethanie K.
 Paech, Michael: Regimens for Patient-controlled Epidural Analgesia during Labor, 1482
 Pagel, Paul S. *see* Chiari, Pascal C.
 Pahl, Heike L. *see* Loop, Torsten
 Palmer, Craig M.: Postpartum Hemorrhage Is Not the Only Setting for Maternal Myocardial Ischemia, 1036
 Pandit, Jaideep J., Moreau, Ben, Donoghue, Simon, Robbins, Peter A.: Effect of Pain and Audiovisual Stimulation on the Depression of Acute Hypoxic Ventilatory Response by Low-dose Halothane in Humans, 1409
 Pannen, Benedikt H. J. *see* Loop, Torsten
 Pape, Monika. *see* Engelhard, Kristin
 Paqueron, Xavier, Gentili, Marc E., Willer, Jean Claude, Coriat, Pierre, Riou, Bruno: Time Sequence of Sensory Changes after Upper Extremity Block: Swelling Sensation Is an Early and Accurate Predictor of Success, 162
 Parekh, Shyam D., Alston, Theodore A.: Temporary Pacemaker Who Wouldn't Quit, 810
 Park, Soo Seog. *see* Woo, Young Cheol
 Patel, Piyush M. *see* Inoue, Sakoto

- Payen, Didier. *see* Karpati, Peter C. J.; Rabuel, Christophe
 Payne, Kim J. *see* Haynes, Gary R.
 Pearce, Robert A. *see* Benkowitz, Claudia; Perouansky, Misha
 Pelaia, Paolo. *see* Morelli, Andrea
 Perel, Azriel. *see* Kiedan, Ilan
 Perkins, William J. *see* Sakihara, Chie
 Perler, Bruce. *see* Faraday, Nauder
 Perouansky, Misha, Pearce, Robert A.: Effects on Synaptic Inhibition in the Hippocampus Do Not Underlie the Amnesic and Convulsive Properties of the Nonimmobilizer 1,2-Dichlorohexafluorocyclobutane, 66
 Persson, Mikael, Elmqvist, Håkan, van der Linden, Jan: Topical Humidified Carbon Dioxide to Keep the Open Surgical Wound Warm: The Greenhouse Effect Revisited, 945
 Pertovaara, Antti. *see* Mansikka, Heikki
 Pidikiti, Ravindernath. *see* Eckenhoff, Roderic G.
 Pietropaoli, Paolo. *see* Morelli, Andrea
 Piskoun, Boris. *see* Grant, Gilbert J.
 Pivalizza, Evan G. *see* Warters, R. David
 Plourde, Gilles. *see* Deschamps, Alain
 Plourde, Gilles: Three Arguments Regarding a Paradigm of General Anesthesia, 1046
 Poldermans, Don. *see* Kertai, Miklos D.
 Poldermans, Don. *see* Kertai, Miklos D.
 Polley, Linda S., Columb, Malachy O.: In Reply, 551
 Polley, Linda S., Santos, Alan C.: In Reply, 554
 Pomés, Jaume. *see* Sala-Blanch, Xavier
 Pontoppidan, Henning: From Continuous Positive-pressure Breathing to Ventilator-induced Lung Injury, 1015
 Posner, Karen L. *see* Lee, Lorri A.
 Poulsen, Peter V. *see* Rasmussen, Mads
 Power, Michael. *see* Moore, Michael
 Prakash, Yedatore S. *see* Pabelick, Christina M.
 Praticò, Caterina. *see* Fodale, Vincenzo
 Praticò, Caterina. *see* Fodale, Vincenzo
 Preckel, Benedikt. *see* Toma, Octavian
 Previte, Joseph P. *see* Wu, Junzheng
 Pronovost, Peter J. *see* Faraday, Nauder
 Prough, Donald S. *see* Abouleish, Amr
 Abouleish, Amr E.; Funston, Joe S.; Svensén, Christer H.; Vane, Luiz A.
 Prout, Heather M. *see* Ririe, Douglas G.
 Punke, Mark A., Friederich, Patrick: Retigabine Stimulates Human KCNQ2/Q3 Channels in the Presence of Bupivacaine, 430
 Puri, Navneet. *see* Chiari, Pascal C.

Q

- Quintin, Luc, Ghignone, Marco: Is There Any Reason to Withhold α_2 Agonists from Patients with Coronary Disease during Surgery?, 1244

R

- Rabuel, Christophe, Renaud, Estelle, Brealey, David, Ratajczak, Philippe, Damy, Thibaut, Alves, Arnould, Habib, Aïda, Singer, Mervyn, Payen, Didier, Mebazaa, Alexandre: Human Septic Myopathy: In-

- duction of Cyclooxygenase, Heme Oxygenase and Activation of the Ubiquitin Proteolytic Pathway, 583
 Raciti, Giuseppina. *see* Acquaviva, Rosaria
 Rae, Bronwyn. *see* Wheeler, Melissa
 Raja, Shahzad G.: Treatment of Rebound Pulmonary Hypertension: Why Not Sildenafil?, 1480
 Raja, Srinivasa N. *see* Gottschalk, Allan
 Rajan, Govind R.: Is It the Validation or Invalidation of the Airway Management Algorithm?, 1484
 Ramaswamy, Bhamini. *see* Angst, Martin S.
 Ramsay, Michael A. E., Luterma, David L.: Dexmedetomidine as a Total Intravenous Anesthetic Agent, 787
 Rasmussen, Lars S. *see* Abildstrom, Hanne
 Rasmussen, Mads, Østergaard, Leif, Juul, Niels, Gyldensted, Carsten, Poulsen, Peter V., Cold, Georg E.: Do Indomethacin and Propofol Cause Cerebral Ischemic Damage? Diffusion-weighted Magnetic Resonance Imaging in Patients Undergoing Craniotomy for Brain Tumors, 872
 Ratajczak, Philippe. *see* Rabuel, Christophe
 Rawson, Regan. *see* McCartney, Colin J. L.
 Recio-Pinto, Esperanza. *see* Corrales, Alexandra
 Rehak, Peter H. *see* Dahaba, Ashraf A.
 Reich, David L., Hollinger, Ingrid, Harrington, Donna J., Seiden, Howard S., Chakravorti, Sephali, Cook, D. Ryan: Comparison of Cisatracurium and Vecuronium by Infusion in Neonates and Small Infants after Congenital Heart Surgery, 1122
 Reier, Charles E.: Bleeding, Dysphagia, Dysphonia, Dysarthria, Severe Sore Throat, and Possible Recurrent Laryngeal, Hypoglossal, and Lingual Nerve Injury Associated with Routine Laryngeal Mask Airway Management: Where Is the Vigilance?, 1241
 Reinsel, Ruth A. *see* Veselis, Robert A.
 Reißmann, Hajo. *see* Schuster, Martin
 Renaud, Estelle. *see* Rabuel, Christophe
 Rengasamy, Sundara K., Ortega, Rafael A.: Foreign Body in the Airway, 1486
 Reszka, Regina. *see* Brack, Alexander
 Reuben, Scott S.: Preventing the Development of Complex Regional Pain Syndrome after Surgery, 1215
 Reynolds, James D. *see* Uemura, Kenichiro
 Rice, Shirley F. *see* Kittelberger, Keith P.
 Riou, Bruno. *see* Amour, Jerome; Amour, Julien; Paqueron, Xavier
 Riou, Bruno: Troponin: Important in Severe Trauma and a First Step in the Biological Marker Revolution, 1259
 Ripart, Jacques. *see* Nouvellon, Emmanuel
 Ririe, Douglas G., Prout, Heather M., Eisenach, James C.: Effect of Cyclooxygenase-1 Inhibition in Postoperative Pain Is Developmentally Regulated, 1031
 Rittner, Heike L. *see* Brack, Alexander
 Rivo, Julia, Zeira, Evelyne, Galun, Eithan, Matot, Idit: Activation of A_3 Adenosine Receptors Attenuates Lung Injury after *In Vitro* Reperfusion, 1153
 Robbins, Peter A. *see* Pandit, Jaideep J.
 Roberts, Cynthia J. *see* Ibinson, James W.
 Roberts, Harold R., Escobar, Miguel, Monroe, Dougald M.: More Information on Patients with Factor XI Deficiency, 1253

- Robertson, Kerri M. *see* Cortinez, Luis I.; Hsu, Yung-Wei
 Rocco, Monica. *see* Morelli, Andrea
 Rodriguez, Jaime. *see* Taboada, Manuel
 Rodrigus, Inez E. *see* De Hert, Stefan G.
 Roelants, Fabienne, Lavand'homme, Patricia M.: Epidural Neostigmine Combined with Sufentanil Provides Balanced and Selective Analgesia in Early Labor, 439
 Roepcke, Heiko. *see* Ellerkmann, Richard Klaus
 Roesslein, Martin. *see* Loop, Torsten
 Roman, Richard J. *see* Stekiel, Thomas A.
 Romanoff, Mark E.: A Sigh Is Not a Sigh, as PEEP Blows By, 1047
 Romberg, Raymonda. *see* Dahan, Albert
 Rondelet, Benoit. *see* Kerbaul, François
 Rosenberg, Henry. *see* Sci, Yoshitatsu
 Rosenquist, Richard. *see* Hadzic, Admir
 Rossaint, Rolf. *see* Hüncke, Rocco
 Rossignol, Matthias. *see* Karpati, Peter C. J.
 Roth, Andrew G. *see* Wheeler, Melissa
 Roth, Jonathan V.: More Reasons Why Anesthesiologists Should Administer Preoperative Antibiotics, 258
 Rouby, Jean-Jacques. *see* Dreyfuss, Didier
 Rouby, Jean-Jacques, Constantin, Jean-Michel, de A Girardi, Cassio Roberto, Zhang, Mao, Lu, Qin: Mechanical Ventilation in Patients with Acute Respiratory Distress Syndrome, 228
 Rouelle, Danielle. *see* Dahmani, Souhail
 Ruan, Zonghai. *see* Koizumi, Tomonobu
 Rudick, Valery. *see* Flaishon, Ron
 Rusyniak, Daniel E., Banks, Matthew L., Mills, Edward M., Sprague, Jon E.: Dantrolene Use in 3,4-Methylenedioxymethamphetamine ("Ecstasy")-Mediated Hyperthermia, 263
 Ryall, David M. *see* Cooper, David W.
 Rydberg, Charlotte H. *see* Jacob, Adam K.

S

- Sachs, Daniel. *see* Sci, Yoshitatsu
 Sadhasivam, Senthilkumar. *see* Masuda, Takako
 Sacki, Shigeru. *see* Iida, Ryoji
 Sazonov, Boris V. *see* Santos, Sônia F. A.
 Sakamoto, Takanori. *see* Kawaraguchi, Yoshitaka
 Sakihara, Chie, Perkins, William J., Warner, David O., Jones, Keith A.: Anesthetics Inhibit Acetylcholine-promoted Guanine Nucleotide Exchange of Heterotrimeric G Proteins of Airway Smooth Muscle, 120
 Sala-Blanch, Xavier, Pomés, Jaume, Matute, Purificación, Valls-Solé, Josep, Carrera, Anna, Tomás, Xavier, García-Diez, Anna I.: Intraneural Injection during Anterior Approach for Sciatic Nerve Block, 1027
 Salahieh, Ali. *see* Wallace, Arthur W.
 Salem, M. Ramez. *see* El-Orbany, Mohammad I.
 Salengros, Jean-Corentin, Velghe-Lenelle, Charles-Eric, Bollens, Renaud, Engelman, Edgard, Barvais, Luc: Lactic Acidosis during Propofol-Remifentanyl Anesthesia in an Adult, 241
 Salvador, Lydia. *see* Fábregas, Neus
 Sambuughin, Nyamkishig N. *see* Sci, Yoshitatsu

- Sandorfy, Camille: Weak Intermolecular Associations and Anesthesia, 1225
- Sandson, Neal B. *see* Marcucci, Catherine
- Santamaria, Letterio B. *see* Fodale, Vincenzo
- Santos, Alan C. *see* Hadzic, Admir; Polley, Linda S.
- Santos, Sônia F. A., Melnick, Igor V., Sefronov, Boris V.: Selective Postsynaptic Inhibition of Tonic-firing Neurons in Substantia Gelatinosa by μ -Opioid Agonist, 1177
- Sapunar, Damir. *see* Hogan, Quinn
- Sarton, Elise. *see* Dahhan, Albert
- Sartori, Valentina. *see* Svetcic, Gorazd
- Sato, Shigehito. *see* Jiang, Xiaojing
- Satterfield, William C. *see* Grader, Tamara Lee
- Sawada, Keisuke. *see* Shibutani, Kinichi
- Scavone, Barbara M., Wong, Cynthia A., Sullivan, John T., Yaghamour, Edward, Sherwani, Saadia S., McCarthy, Robert J.: Efficacy of a Prophylactic Epidural Blood Patch in Preventing Post Dural Puncture Headache in Parturients after Inadvertent Dural Puncture, 1422
- Schäfer, Michael. *see* Brack, Alexander
- Schaff, Hartzell V. *see* Oliver, William C.
- Schaffhalter-Zoppoth, Ingeborg, Younger, Steven J., Collins, Adam B., Gray, Andrew T.: The "Seesaw" Sign: Improved Sonographic Identification of the Sciatic Nerve, 808
- Scharpf, Robert B. *see* Faraday, Nauder
- Schattner, Mark. *see* Dobres, Catherine
- Schaub, Marcus C. *see* London, Martin J.; Zaugg, Michael
- Scheiermann, Patrick. *see* Loop, Torsten
- Scheinin, Mika. *see* Mansikka, Heikki
- Schiessl, Christine. *see* Fechner, Jörg
- Schlack, Wolfgang. *see* Toma, Octavian
- Schlitz, Anu. *see* Brack, Alexander
- Schmalbrock, Petra. *see* Ibinson, James W.
- Schmidt, Gunter N., Bischoff, Petra, Standl, Thomas, Hellstern, Angelika, Teuber, Olaf, Schulte am Esch, Jochen: Comparative Evaluation of the Daxe-Ohmeda S/5 Entropy Module and the Bispectral Index[®] Monitor during Propofol-Remifentanyl Anesthesia, 1283
- Schmidt, Helmut. *see* Skarke, Carsten
- Schmidt, Rene. *see* Loop, Torsten
- Schneider, Gerhard, Kochs, Eberhard F., Arenbeck, Henry, Gallinat, Michael, Stockmanns, Gudrun: Signal Verification of Middle Latency Auditory Evoked Potentials by Automated Detection of the Brainstem Response, 321
- Schneider, Gerhard, Kochs, Eberhard F., Horn, Bettina, Kreuzer, Matthias, Nyingler, Michael: Narcotrend[®] Does Not Adequately Detect the Transition between Awareness and Unconsciousness in Surgical Patients, 1105
- Schulte am Esch, Jochen. *see* Fiege, Marko; Friederich, Patrick
- Schulte am Esch, Jochen. *see* Gerbershagen, Mark Ulrich; Schmidt, Gunter N.; Schuster, Martin
- Schumacher, Peter M. *see* Locher, Stephan
- Schummer, Claudia. *see* Schummer, Wolfram
- Schummer, Wolfram, Schummer, Claudia, Wippermann, Jens, Fuchs, Juergen: Anaphylactic Shock: Is Vasopressin the Drug of Choice?, 1022
- Schuster, Martin, Standl, Thomas, Wagner, Joachim A., Berger, Jürgen, Reißmann, Hajo, Schulte am Esch, Jochen: Effect of Different Cost Drivers on Cost per Anesthesia Minute in Different Anesthesia Subspecialties, 1435
- Schüttler, Jürgen. *see* Fechner, Jörg
- Schwartz, Sylvia. *see* Oczenski, Wolfgang
- Schwilden, Helmut. *see* Fechner, Jörg
- Sedensky, Margaret M. *see* Kayser, Ernst-Bernhard
- Sei, Yoshitatsu, Sambuughin, Nyamkhishig N., Davis, Edward J., Sachs, Daniel, Cuenca, Phil B., Brandom, Barbara W., Tautz, Timothy, Rosenberg, Henry, Nelson, Thomas E., Muldoon Sheila M.: Malignant Hyperthermia in North America: Genetic Screening of the Three Hot Spots in the Type I Ryanodine Receptor Gene, 824
- Seiden, Howard S. *see* Reich, David L.
- Seino, Yusuke. *see* Handa-Tsutsui, Fumi
- Seki, Sumiko. *see* Hattori, Jun-ichi
- Seshadri, Roopa. *see* Wheeler, Melissa
- Sessler, Daniel I. *see* Doufas, Anthony G.; Liem, Edwin B.; Xing, Yilei
- Shafer, Steven L. *see* Doufas, Anthony G.; Kreuer, Sascha; Vanluchene, Ann L. G.
- Shafer, Steven L.: Picking Safe Combinations, 1260
- Shafer, Steven L.: Shock Values, 567
- Shannon, Patrick. *see* Angle, Pamela
- Sharma, Pushpa. *see* Musser, Jeffrey B.
- Sherwani, Saadia S. *see* Scavone, Barbara M.
- Shi, Enyi. *see* Jiang, Xiaojing
- Shibutani, Kinichi, Inchiosa, Maria A., Jr., Sawada, Keisuke, Bairamian, Mosses: Accuracy of Pharmacokinetic Models for Predicting Plasma Fentanyl Concentrations in Lean and Obese Surgical Patients: Derivation of Dosing Weight ("Pharmacokinetic Mass"), 603
- Shin, Il-Woo. *see* Sohn, Ju-Tae
- Shroff, Persis K., Mayhew, James F.: Cardiac Toxicity from 3% 2-Chloroprocaine, 1036
- Shubert, Kaur. *see* Angaramo, Gustavo
- Sieck, Gary C. *see* Pabelick, Christina M.
- Siersma, Volkert D. *see* Abildstrom, Hanne
- Simon, Lionel, Kariya, Nobutaka, Edouard, Alain, Benhamou, Dan, Mazoit, Jean-Xavier: Effect of Bupivacaine on the Isolated Rabbit Heart: Developmental Aspect on Ventricular Conduction and Contractility, 937
- Sinatra, Raymond S. *see* Mitra Sukanya
- Singer, Mervyn. *see* Rabuel, Christophe
- Skarke, Carsten, Langer, Michael, Jarrar, Marwan, Schmidt, Helmut, Geisslinger, Gerd, Lötsch, Jörn: Probenecid Interacts with the Pharmacokinetics of Morphine-6-glucuronide in Humans, 1394
- Slutsky, Arthur S. *see* Whitehead, Thomas C.
- Small, Robert H. *see* Ibinson, James W.
- Smiley, Matthew M., Lu, Ying, Vera-Portocarrero, Louis P., Zidan, Amr, Westlund, Karin N.: Intrathecal Gabapentin Enhances the Analgesic Effects of Subtherapeutic Dose Morphine in a Rat Experimental Pancreatitis Model, 759
- Smith, Charles E. *see* Dietrich, Cynthia L.
- Smith, Hugh M.: Barrell of Lunatics: Places Associated with the First Public Demonstration of Ether Anesthesia, 1255
- Sohn, Ju-Tae, Ok, Seung-Ho, Kim, Hee-Jin, Moon, Seon-Hak, Shin, Il-Woo, Lee, Heon-Keun, Chung, Young-Kyun: Inhibitory Effect of Fentanyl on Acetylcholine-induced Relaxation in Rat Aorta, 89
- Solth, Anna. *see* Friederich, Patrick
- Somma, Jacques. *see* Cortinez, Luis I.; Hsu, Yung-Wei
- Somri, Mostafa. *see* Gaitini, Luis A.
- Sonner, James M. *see* Xing, Yilei
- Soriano, Sulpicio G. *see* Anand, Kanwaljeet J. S.
- Sotman, Alexander. *see* Flaishon, Ron
- Soto, Roy G., Vila, Hector, Jr.: Normal Bispectral Index Values in Healthy Volunteers, 799
- Soummer, Alexis. *see* Amour, Jerome
- Spahn, Donat R. *see* London, Martin J.; Zaugg, Michael
- Spittler, Karl-Heinz. *see* Johnson, Michael E.
- Sprague, Jon E. *see* Rusyniak, Daniel E.
- Stadler, Konrad S. *see* Locher, Stephan
- Stafford-Smith, Mark. *see* Welsby, Ian J.
- Stamler, Jonathan S. *see* Uemura, Kenichiro
- Standl, Thomas. *see* Gottschalk, André
- Standl, Thomas. *see* Schmidt, Gunter N.; Schuster, Martin
- Stause, Hans-Jürgen. *see* Gottschalk, André
- Stayer, Stephen A. *see* Ikemba, Catherine M.
- Steele, Derek S. *see* Duke, Adrian M.
- Stegemann, Uta. *see* Engelhard, Kristin
- Stegmann, Jens-Ulrich. *see* Muth-Selbach, Uta
- Stehr, Sebastian N. *see* Litz, Rainer J.
- Stein, Christoph. *see* Brack, Alexander
- Stekiel, Thomas A., Contney, Stephen J., Bosnjak, Zeljko J., Kampine, John P., Roman, Richard J., Stekiel, William J.: Reversal of Minimum Alveolar Concentrations of Volatile Anesthetics by Chromosomal Substitution, 796
- Stekiel, William J. *see* Stekiel, Thomas A.
- Stockman, Bernard A. *see* De Hert, Stefan G.
- Stockmanns, Gudrun. *see* Schneider, Gerhard
- Strichartz, Gary R. *see* Lambert, Donald H.
- Struys, Michel M. R. F. *see* Vanluchene, Ann L. G.
- Su, Jason T. *see* Ikemba, Catherine M.
- Subieta, Alberto R. *see* Woo, Young Cheol
- Sugimoto, Masahiro. *see* Suzuki, Takahiro
- Suleman, Mohammed-Irfan. *see* Liem, Edwin B.
- Sullivan, Christine L. *see* Wheeler, Melissa
- Sullivan, John T. *see* Scavone, Barbara M.
- Sum-Ping, Sam T. *see* Cortinez, Luis I.; Hsu, Yung-Wei
- Sun, David X. *see* Hannon, James D.
- Suzuki, Akira, Armstead, Stephen C., Eckmann, David M.: Surfactant Reduction in Embolism Bubble Adhesion and Endothelial Damage, 97
- Suzuki, Takahiro. *see* Iida, Ryoji
- Suzuki, Takahiro, Sugimoto, Masahiro, Koyama, Hideki, Mashimo, Takashi, Uchida, Ichiro: Inhibitory Effect of Glucocorticoids on Human-cloned 5-hydroxytryptamine_{2A} Receptor Expressed in *Xenopus* Oocytes, 660
- Suzuki, Toshiyasu. *see* Kanazawa, Masahiro
- Svensén, Christer H., Brauer, Kirk P., Hahn, Robert G., Uchida, Tatsuo, Traber, Lillian

- D., Prough, Donald S.: Elimination Rate Constant Describing Clearance of Infused Fluid from Plasma Is Independent of Large Infusion Volumes of 0.9% Saline in Sheep, 666
- Sveticic, Gorazd, Gentilini, Andrea, Eichenberger, Urs, Zanderigo, Eleonora, Sartori, Valentina, Luginbühl, Martin, Curatolo, Michele: Combinations of Bupivacaine, Fentanyl, and Clonidine for Lumbar Epidural Postoperative Analgesia: A Novel Optimization Procedure, 1381
- Szmuk, Peter. *see* Warters, R. David
- Szokol, Joseph W. *see* Murphy, Glenn S.
- ### T
- Taboada, Manuel, Rodríguez, Jaime, Álvarez, Julián, Cortés, Joaquín, Gude, Francisco, Atanassoff, Peter G.: Sciatic Nerve Block *via* Posterior Labat Approach Is More Efficient Than Lateral Popliteal Approach Using a Double-injection Technique: A Prospective, Randomized Comparison, 138
- Tager, Kai. *see* Weber, Frank
- Taguchi, Noriko. *see* Kihara, Shinichi
- Takahashi, Akira. *see* Kawano, Takashi
- Takahashi, Masahiro. *see* Kawaraguchi, Yoshitaka
- Takaki, Miyako. *see* Kuzumoto, Naoya
- Takasaki, Mayumi. *see* Onizuka, Shin
- Takenaka, Ichoro, Urakami, Yasunari, Aoyama, Kazuyoshi, Terada, Tadanori, Ishimura, Hiroshi, Iwagaki, Tamao, Kadoya, Tatsuo: Severe Subluxation in the Sniffing Position in a Rheumatoid Patient with Anterior Atlantoaxial Subluxation, 1235
- Takiguchi, Tetsuo, Yamaguchi, Shigeki, Hashizume, Yoshitaka, Kitajima, Toshimitsu: Movement of the Cauda Equina during the Lateral Decubitus Position with Fully Flexed Leg, 1250
- Tamai, Tsutomu. *see* Kitagawa, Norihito
- Tanaka, Katsuya. *see* Chiari, Pascal C.
- Tang, Simon F. T. *see* Chen, Carl P. C.
- Tanifuji, Yasumasa. *see* Mio, Yasushi
- Taniguchi, Masahiko. *see* Drasner, Kenneth
- Tank, Sascha. *see* Gottschalk, André
- Tautz, Timothy. *see* Sci, Yoshitatsu
- ten Broecke, Pieter W. *see* De Hert, Stefan G.
- Teppema, Luc. *see* Dahan, Albert
- Terada, Tadanori. *see* Takenaka, Ichoro
- ter Keurs, E. D. J. *see* Hanly, Peter J.
- Tescione, Marco. *see* Fodale, Vincenzo
- Tesnière, Antoine. *see* Dahmani, Souhayl
- Teuber, Olaf. *see* Schmidt, Gunter N.
- Tewari, Anurag, Garg, Shuchita, Kaul, Tej K.: Anesthesiologists and Perioperative Antibiotic Prophylaxis, 259
- Thannikary, Lisa J. *see* Ilfeld, Brian M.
- Thas, Olivier. *see* Vanluchene, Ann L. G.
- Thistlethwaite, Patricia A. *see* Manecke, Gerald R., Jr.
- Thompson, Edward S.: Where Is the Fentanyl?, 265
- Thompson, Rebekah. *see* Cooper, David W.
- Thomson, Ian R. *see* Hudson, Robert J.
- Thys, Daniel M. *see* Hadzic, Admir
- Handa-Tsutsui, Fumi
- Todd, Michael M. *see* Kharasch, Evan D.
- Todd, Michael M.: Anesthetic Neurotoxicity: The Collision Between Laboratory Neuroscience and Clinical Medicine, 272
- Tokinaga, Yasuyuki. *see* Yu, Jingui
- Toma, Octavian, Weber, Nina C., Wolter, Jessica L., Obal, Detlef, Preckel, Benedikt, Schlack, Wolfgang: Desflurane Preconditioning Induces Time-dependent Activation of Protein Kinase C Epsilon and Extracellular Signal-Regulated Kinase 1 and 2 in the Rat Heart *In Vivo*, 1372
- Tomás, Xavier. *see* Sala-Blanch, Xavier
- Tomiya, Yoshinobu. *see* Kawano, Takashi
- Topic, Julie E. *see* Kroin, Jeffrey S.
- Toriyabe, Masaki, Omote, Keiichi, Kawamata, Tomoyuki, Namiki, Akiyoshi: Contribution of Interaction between Nitric Oxide and Cloxygenases to the Production of Prostaglandins in Carrageenan-induced Inflammation, 983
- Totoki, Tadahide. *see* Kitagawa, Norihito
- Toumpoulis, Ioannis K., Anagnostopoulos, Constantine E.: Rapid Ischemic Preconditioning for Spinal Cord Protection after Transient Aortic Occlusion, 261
- Toutant, Madeleine. *see* Dahmani, Souhayl
- Traber, Lillian D. *see* Svensén, Christer H.
- Tramèr, Martin R. *see* Büttner, Michael
- Traub, Rodney D. *see* Dexter, Franklin
- Tremblay, Claude. *see* Vezina, Daniel P.
- Trémelot, Laurent. *see* Chazot, Thierry
- Tremper, Kevin K. *see* Han, Richard
- Trépanier, Claude A. *see* Vezina, Daniel P.
- Trevelin, Wilder R. *see* Lauretti, Gabriela R.
- Trillo, Raul A., Jr. *see* Chiari, Pascal C.
- Tsai, Wen-Chung. *see* Chen, Carl P. C.
- Tsen, Lawrence C. *see* Hepner, David L.
- Tsushima, Kenji. *see* Koizumi, Tomonobu
- Tsutsumi, Yasuo. *see* Kawano, Takashi
- Tuman, Kenneth J. *see* Kroin, Jeffrey S.
- Turndorf, Herman. *see* Grant, Gilbert J.
- Turner, Lawrence A. *see* Aizawa, Kei
- ### U
- Uchida, Ichiro. *see* Suzuki, Takahiro
- Uchida, Tatsuo. *see* Svensén, Christer H.
- Uchiyama, Akinori. *see* Maeda, Yoshiko
- Uemura, Kenichiro, McClaine, Rebecca J., de la Fuente, Sebastian G., Manson, Roberto J., Campbell, Kurt A., McClaine, Deborah J., White, William D., Stamler, Jonathan S., Eubanks, W. Steve, Reynolds, James D.: Maternal Insufflation during the Second Trimester Equivalent Produces Hypercapnia, Acidosis, and Prolonged Hypoxia in Fetal Sheep, 1332
- Uemura, Koichi. *see* Kuzumoto, Naoya
- Ueyama, Takashi. *see* Kuzumoto, Naoya
- Uhl, Cindy B. *see* Johnson, Michael E.
- Urakami, Yasunari. *see* Takenaka, Ichoro
- ### V
- Vadhera, Rakesh B. *see* Abouleish, Amr E.
- Vaida, Sonia J. *see* Gaitini, Luis A.
- Valero, Ricard. *see* Fabregas, Neus
- Valls-Solé, Josep. *see* Sala-Blanch, Xavier
- Vander Griend, Robert A. *see* Ilfeld, Brian M.
- van der Linden, Jan. *see* Persson, Mikael
- Van der Linden, Philippe J. *see* De Hert, Stefan G.
- Vane, Luiz A., Prough, Donald S., Kinsky, Michael A., Williams, Chad A., Grady, James J., Kramer, George C.: Effects of Different Catecholamines on the Dynamics of Volume Expansion of Crystalloid Infusion, 1136
- Vanella, Angelo. *see* Acquaviva, Rosaria
- Vanluchene, Ann L. G., Vereecke, Hugo, Thas, Olivier, Mortier, Eric P., Shafer, Steven L., Struys, Michel M. R. F.: Spectral Entropy as an Electroencephalographic Measure of Anesthetic Drug Effect: A Comparison with Bispectral Index and Processed Midlatency Auditory Evoked Response, 34
- Van Reeth, Veronique. *see* De Hert, Stefan G.
- Van Zundert, André, Al-Shaikh, Baha, Fonck, Kristine, Mortier, Eric: In Reply, 265
- Van Zundert, Jan. *see* Haspeslagh, Sara
- Varssano, David. *see* Flaishon, Ron
- Veauchier, Jacqueline M. *see* Liem, Edwin B.
- Velghe-Lenelle, Charles-Eric. *see* Salengros, Jean-Coréntin
- Vender, Jeffrey S. *see* Murphy, Glenn S.
- Vera-Portocarrero, Louis P. *see* Smiley, Matthew M.
- Verecke, Hugo. *see* Vanluchene, Ann L. G.
- Vernagione, Enrico. *see* Morelli, Andrea
- Veselis, Robert A., Reinsel, Ruth A., Feshchenko, Vladimir A., Johnson, Ray, Jr.: Information Loss over Time Defines the Memory Defect of Propofol: A Comparative Response with Thiopental and Dexmedetomidine, 831
- Vezina, Daniel P., Trépanier, Claude A., Lessard, Martin R., Gourdeau, Marie, Tremblay, Claude, Guidoin, Robert: An *In Vivo* Evaluation of the Myobacterial Filtration Efficacy of Three Breathing Filters Used in Anesthesia, 104
- Vicaut, Eric. *see* Karpati, Peter C. J.
- Videira, Rogério L. R., Ferreira, Roberto Manara V.: Dexmedetomidine and Asystole, 1479
- Vila, Hector, Jr. *see* Soto, Roy G.
- Visser, Kris. *see* Haspeslagh, Sara
- Vivien, Benoit. *see* Amour, Julien
- Vivier, Emmanuel. *see* Closon, Mathieu
- Vloka, Jerry D. *see* Hadzic, Admir
- Voll, Ronald. *see* Votaw, John R.
- von Elm, Erik. *see* Büttner, Michael
- von Schroeder, Herbert. *see* McCartney, Colin J. L.
- Vornov, James J. *see* Fechner, Jörg
- Voronov, Gennadiy, Alexander, Bozana, Krishnankutty, Shakuntala, Khorasani, Arjang: One-Millimeter Thickness Makes a Great Difference, 809
- Votaw, John R., Byas-Smith, Michael G., Voll, Ronald, Halkar, Raghu, Goodman, Mark M.: Isoflurane Alters the Amount of Dopamine Transporter Expressed on the Plasma Membrane in Humans, 1128
- Vuyk, Jaap, Lichtenbelt, Bart-Jan, Dahan, Albert, Engbers, Frank H. M., Burm, Anton G. L.: In Reply, 800
- ### W
- Wagner, Joachim A. *see* Schuster, Martin
- Walder, Bernhard. *see* Büttner, Michael
- Wallace, Arthur W., Galindez, Daniel,

Salahieh, Ali, Layug, Elizabeth L., Lazo, Eleanor A., Haratoni, Kathy A., Boisvert, Denis M., Kardatzke, David: Effect of Clonidine on Cardiovascular Morbidity and Mortality after Noncardiac Surgery, 284

Wang, Hongxun. *see* Johnson, Michael E.

Wappler, Frank. *see* Fiege, Marko

Wappler, Frank. *see* Gerbershagen, Mark Ulrich

Wartier, David C. *see* Chiari, Pascal C.

Warner, David O. *see* Sakihara, Chie

Warner, David O.: The Manual of Anesthesia Practice, version 1.1.0, 1490

Warner, David O.: The Patient Safety Handbook, 1489

Warner, David S. *see* Homi, H. Mayumi

Warner, Mark A. *see* Kies, Susan J.

Warner, Mary E. *see* Kies, Susan J.

Warters, R. David, Szmuk, Peter, Pivalizza, Evan G., Gebhard, Ralf, Ezri, Tiberiu: In Reply, 260

Waschke, Klaus F. *see* Fütterer, Carsten D.

Wass, C. Thomas. *see* Husser, Casey S.

Wass, C. Thomas. *see* Jacob, Adam K.; Long, Timothy R.

Watanabe, Seiji. *see* Kihara, Shinichi

Watts, Daniel E. *see* Kroin, Jeffrey S.

Weber, Frank, Bein, Thomas, Hobbhahn, Jonny, Taeger, Kai: Evaluation of the Alaris Auditory Evoked Potential Index as an Indicator of Anesthetic Depth in Preschool children during Induction of Anesthesia with Sevoflurane and Remifentanyl, 294

Weber, Nina C. *see* Toma, Octavian

Wei, Huafeng. *see* Eckenhoff, Roderic G.

Wei, Wenlin. *see* Eckenhoff, Roderic G.

Weißhorn, Ralf. *see* Gerbershagen, Mark Ulrich

Weihrauch, Dorothee. *see* Aizawa, Kei

Weinberg, Guy L., Hertz, Paul H., Newman, Janet: Local Anesthetic Cardiac Toxicity can Present as Late-onset Hypotension, Bradycardia, and Asystole, 553

Weinbroum, Avi A. *see* Flaishon, Ron

Weisner, Lothar. *see* Gottschalk, André

Weisshorn, Ralf. *see* Fiege, Marko

Welsby, Ian J., Stafford-Smith, Mark: Monitoring Direct Thrombin Inhibitors: Time for Standardization, 1048

Wenningmann, Ingobert. *see* Ellerkmann, Richard Klaus

Werner, Christian. *see* Engelhard, Kristin

Westlund, Karin N. *see* Smiley, Matthew M.

Wheeler, Melissa, Roth, Andrew G., Dsida, Richard M., Rac, Bronwyn, Seshadri, Roopa, Sullivan, Christine L., Heffner, Corri L., Coté, Charles J.: Teaching Residents Pediatric Fiberoptic Intubation of

the Trachea: Traditional Fiberscope with an Eyepiece *versus* a Video-Assisted Technique Using Fiberscope with an Integrated Camera, 842

White, William D. *see* Uemura, Kenichiro

Whitehead, Thomas C., Zhang, Haibo, Mullen, Brendan, Slutsky, Arthur S.: Effect of Mechanical Ventilation on Cytokine Response to Intratracheal Lipopolysaccharide, 52

Whitten, Charles W. *see* Abouleish, Amr

Whittington, Dale. *see* Kharasch, Evan D.

Wilhelm, Wolfram. *see* Bauer, Michael

Wilhelm, Wolfram. *see* Ellerkmann, Richard Klaus

Willer, Jean Claude. *see* Paqueron, Xavier

Willhelm, Wolfram. *see* Kreuer, Sascha

Williams, Brian A.: For Outpatients, Does Regional Anesthesia Truly Shorten the Hospital Stay, and How Should We Define Postanesthesia Care Unit Bypass Eligibility?, 3

Williams, Chad A. *see* Vane, Luiz A.

Wippermann, Jens. *see* Schummer, Wolfram

Woehlck, Harvey J.: Sleeping with Uncertainty: Anesthetics and Desiccated Absorbent, 276

Wolter, Jessica I. *see* Toma, Octavian

Wong, Cynthia A. *see* Scavone, Barbara M.

Wong, Tak Ming. *see* Zhang, Ye

Woo, Young Cheol, Park, Soo Seog, Subieta, Alberto R., Brenna, Timothy J.: Changes in Tissue pH and Temperature after Incision Indicate Acidosis May Contribute to Postoperative Pain, 468

Wood, Margaret. *see* Kharasch, Evan D.

Woodhouse, Julie A. *see* Murray, David J.

Wozniak, David F. *see* Olney, John W.

Wright, David R. *see* Cortinez, Luis I.; Hsu, Yung-Wei

Wu, Christopher L. *see* Liu, Spencer S.

Wu, Junzheng, Previte, Joseph P., Adler, Elena, Myers, Troy, Ball, John, Gunter, Joel B.: Spontaneous Ignition, Explosion, and Fire with Sevoflurane and Barium Hydroxide Lime, 534

Wymann, Rolf. *see* Locher, Stephan

X

Xiao, Yan. *see* Dexter, Franklin

Xing, Yilei, Sonner, James M., Eger, Edmond L., II, Cascio, Michael, Sessler, Daniel I.: Mice with a Melanocortin 1 Receptor Mutation Have a Slightly Greater Minimum Alveolar Concentration than Control Mice, 544

Xu, Fang. *see* Corrales, Alexandra

Y

Yaghmour, Edward. *see* Scavone, Barbara M.

Yaguchi, Yuichi. *see* Kihara, Shinichi

Yaksh, Tony L., Allen, Jeffrey W.: In Reply, 257

Yamaguchi, Shigeki. *see* Takiguchi, Tetsuo

Yamakage, Michiaki. *see* Hattori, Jun-ichi

Yamamoto, Hiroshi. *see* Koizumi, Tomonobu

Yanovski, Boris. *see* Gaitini, Luis A.

Yokoo, Noriko. *see* Homi, H. Mayumi

Yoon, Duck-Mi. *see* Oh, Chang-Seok

Yoshida, Ken-ichi. *see* Kuzumoto, Naoya

Young, Chaiinlie. *see* Olney, John W.

Young, Christopher. *see* Cortinez, Luis I.

Young, Christopher C. *see* Hsu, Yung-Wei

Young, Christopher C., Lujan, Eugenio: Intravenous Ziprasidone for Treatment of Delirium in the Intensive Care Unit, 794

Younger, Steven J. *see* Schaffhalter-Zoppoth, Ingeborg

Yu, Jingui, Ogawa, Koji, Tokinaga, Yasuyuki, Mizumoto, Kazuhiro, Kakutani, Tetsuya, Hatano, Yoshio: The Inhibitory Effects of Isoflurane on Protein Tyrosine Phosphorylation-modulated Contraction of Rat Aortic Smooth Muscle, 1325

Yufa, Marina. *see* Hadzic, Admir

Z

Zanderigo, Eleonora. *see* Svetcic, Gorazd

Zapol, Warren M.: Clifford J. Woolf: Recipient of the 2004 Excellence in Research Award, 820

Zaugg, Michael. *see* London, Martin J.

Zaugg, Michael, Schaub, Marcus C., London, Martin J., Spahn, Donat R.: In Reply, 1245

Zavala, Elysabeth. *see* Fábregas, Neus

Zbinden, Alex M. *see* Locher, Stephan

Zeilhofer, Hanns Ulrich. *see* Muth-Selbach, Uta

Zeira, Evelyn. *see* Rivo, Julia

Zhang, Haibo. *see* Whitehead, Thomas C.

Zhang, Mao. *see* Rouby, Jean-Jacques

Zhang, Ye, Irwin, Michael, G., Wong, Tak Ming: Remifentanyl Preconditioning Protects against Ischemic Injury in the Intact Rat Heart, 918

Zhao, Ping, Zuo, Zhiyi: Isoflurane Preconditioning Induces Neuroprotection That Is Inducible Nitric Oxide Synthase-dependent in Neonatal Rats, 695

Zidan, Amr. *see* Smiley, Matthew M.

Zitzelsberger, Daniela. *see* Hüneke, Rocco

Zuo, Zhiyi. *see* Zhao, Ping

Zuo, Zhiyi, Yuan, Hui-Bih: In Reply, 1043

